

Number 2

or

MARTY THE ROBOT

MATH CODING ACTIVITY BOOK

when  clicked

+

forever


ROBOTICAL

MATH CODING CARDS

This pack contains four activities and an activity extension. Each with their own sets of cards. Please follow the cards in numerical order.

- Addition With Marty
- Subtraction With Marty
- Multiplication With Marty
- Division With Marty
- Race With Marty



ADDITION WITH MARTY

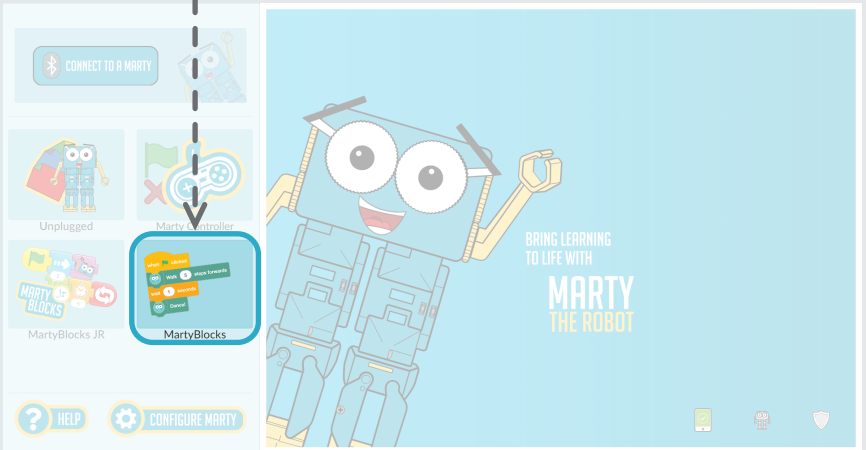
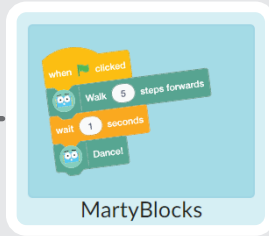
These cards should be completed in numerical order.

1. Addition With Marty 1
2. Addition With Marty 2
3. Addition With Marty 3
4. Addition With Marty 4
5. Addition With Marty 5
6. Addition With Marty 6
7. Addition With Marty 7
8. Addition With Marty 8
9. Addition With Marty 9



ADDITION WITH MARTY 1

Select
MartyBlocks

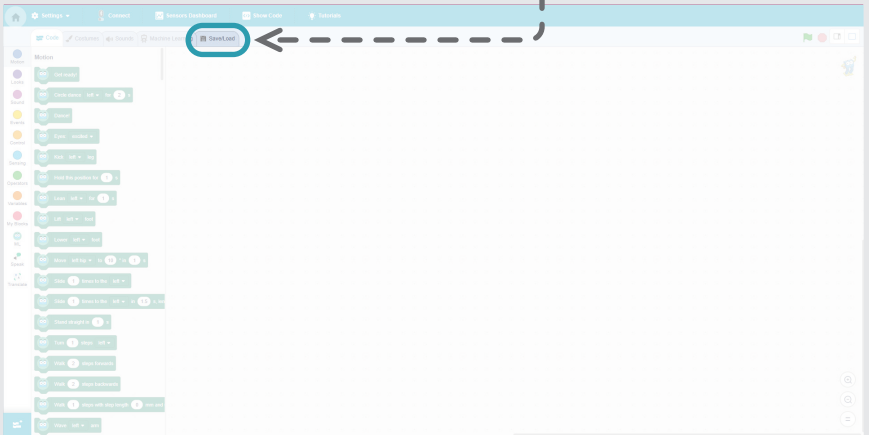


ADDITION WITH MARTY 2

Select the
Save/Load tab



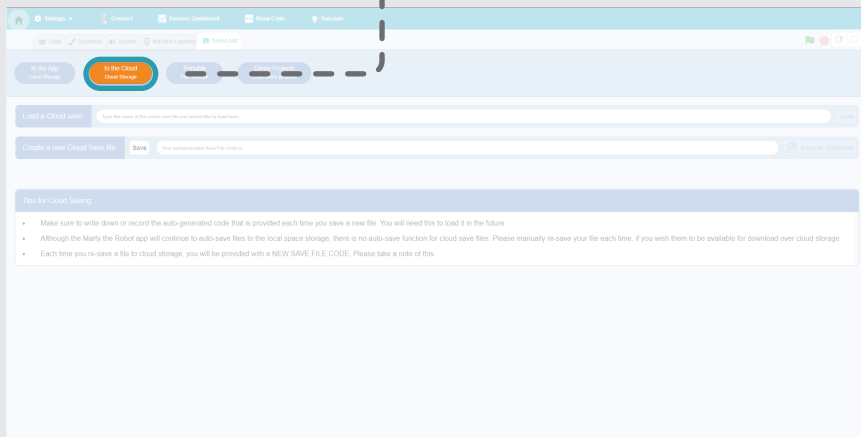
Save/Load



ADDITION WITH MARTY 3

In the Cloud
Cloud Storage

Select the **In the Cloud - Cloud Storage** button



The screenshot shows the Marty the Robot app interface. At the top, there is a navigation bar with options: Settings, Connect, Search Dashboard, Show Code, and Resources. Below this is a toolbar with buttons for 'In the App', 'In the Cloud - Cloud Storage' (highlighted with an orange callout), 'Enable', and 'Change Blocks'. The main area contains a 'Load a Cloud save' section with a search bar and a 'Load' button. Below that is a 'Create a new Cloud Save file' section with a 'Save' button and a 'View autogenerated Save file Code is' link. At the bottom, there is a 'Tips for Cloud Saving' section with three bullet points:

- Make sure to write down or record the auto-generated code that is provided each time you save a new file. You will need this to load it in the future.
- Although the Marty the Robot app will continue to auto-save files to the local space storage, there is no auto-save function for cloud save files. Please manually re-save your file each time, if you wish them to be available for download over cloud storage.
- Each time you re-save a file to cloud storage, you will be provided with a NEW SAVE FILE CODE. Please take a note of this.

ADDITION WITH MARTY 4

Find the **Load a Cloud save:** text box

The image shows a screenshot of the Marty the Robot software interface. At the top, there is a blue header with the text 'ADDITION WITH MARTY 4'. Below the header, the main interface is displayed. A dashed arrow points from a callout box to a specific text box in the software. The callout box is a rounded rectangle with a blue border and contains the text 'Load a Cloud save:' followed by a text input field with the placeholder text 'Type the name of the cloud save file you would like to load here...' and a 'Load' button. The software interface itself has a light blue background and contains several buttons: 'In the App Load Model', 'In the Cloud Load Model', 'Portable File Device', and 'Clone Projects Load into project'. Below these buttons, there is a 'Load a Cloud save:' text box, a 'Create a new Cloud Save file' button, and a 'Save' button. At the bottom of the interface, there is a section titled 'Tips for Cloud Saving' with three bullet points.

Load a Cloud save: Type the name of the cloud save file you would like to load here... Load

In the App Load Model In the Cloud Load Model Portable File Device Clone Projects Load into project

Load a Cloud save: Type the name of the cloud save file you would like to load here... Load

Create a new Cloud Save file Save View autogenerated from the Code as Check to Clipboard

Tips for Cloud Saving

- Make sure to write down or record the auto-generated code that is provided each time you save a new file. You will need this to load it in the future.
- Although the Marty the Robot app will continue to auto-save files to the local space storage, there is no auto-save function for cloud save files. Please manually re-save your file each time, if you wish them to be available for download over cloud storage.
- Each time you re-save a file to cloud storage, you will be provided with a NEW SAVE FILE CODE. Please take a note of this.

ADDITION WITH MARTY 5

1. Enter the text
AdditionWithMarty

2. Press **Load**

AdditionWithMarty

Load

The screenshot shows the Marty IDE interface. At the top, there are navigation tabs: 'Home', 'Settings', 'Project', 'Search Dashboard', 'Show Code', and 'Release'. Below these are several buttons: 'All the Apps Load More', 'Load More' (highlighted in orange), 'Portable Per Device', and 'Clone Projects Load into project'. The main area is titled 'Load a Cloud Save' and contains a text input field with 'AdditionWithMarty' entered. To the right of the input field is a 'Load' button. Below the input field is a 'Create a new Cloud Save file' section with a 'Save' button and a note: 'New autogenerated from the Code is...'. At the bottom, there is a 'Tips for Cloud Saving' section with three bullet points:

- Make sure to write down or record the auto-generated code that is provided each time you save a new file. You will need this to load it in the future.
- Although the Marty the Robot app will continue to auto-save files to the local space storage, there is no auto-save function for cloud save files. Please manually re-save your file each time, if you wish them to be available for download over cloud storage.
- Each time you re-save a file to cloud storage, you will be provided with a NEW SAVE FILE CODE. Please take a note of this.

ADDITION WITH MARTY 6

marty-webapp.web.app says
Loaded Project

OK

Press **OK**

The screenshot shows the Marty the Robot web interface. At the top, there is a navigation bar with 'Settings', 'Connect', 'Search Dashboard', and 'Show Code'. Below this is a toolbar with buttons for 'Go Home', 'Go to My App', 'Go to My Cloud', 'Findable My Device', and 'Clone Projects'. A notification box titled 'marty-webapp.web.app says' with the text 'Loaded Project' and an 'OK' button is overlaid on the interface. A dashed line with an arrow points from the 'OK' button in the notification box to the text 'Press OK'. Below the notification, there is a 'Load a Cloud Save' section with a search bar and a 'Load' button. A 'Create a new Cloud Save file' section is also visible. A loading spinner is present in the center of the page. At the bottom, there is a 'Tips for Cloud Saving' section with a list of instructions.

Load a Cloud Save

Create a new Cloud Save file

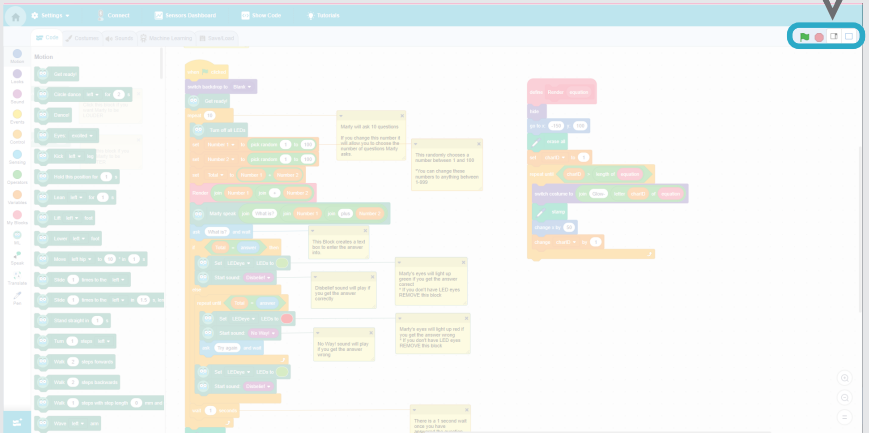
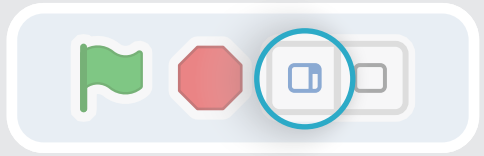
Load

Tip for Cloud Saving

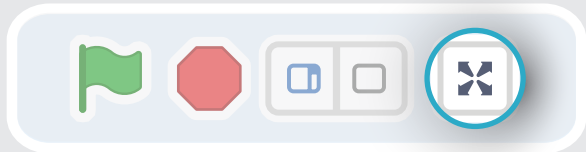
- Make sure to write down or record the auto-generated code that is provided each time you save a new file. You will need this to load it in the future.
- Although the Marty the Robot app will continue to auto-save files to the local space storage, there is no auto-save function for cloud save files. Please manually re-save your file each time, if you wish them to be available for download over cloud storage.
- Each time you re-save a file to cloud storage, you will be provided with a NEW SAVE FILE CODE. Please take a note of this.

ADDITION WITH MARTY 7

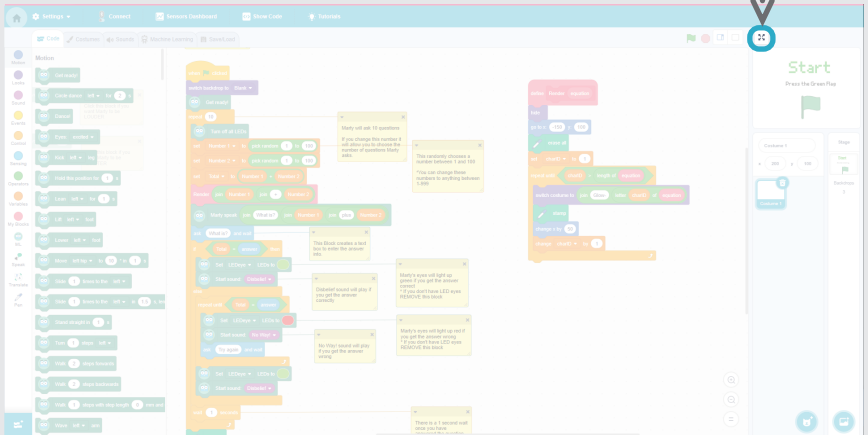
Open the
Sprite window



ADDITION WITH MARTY 8



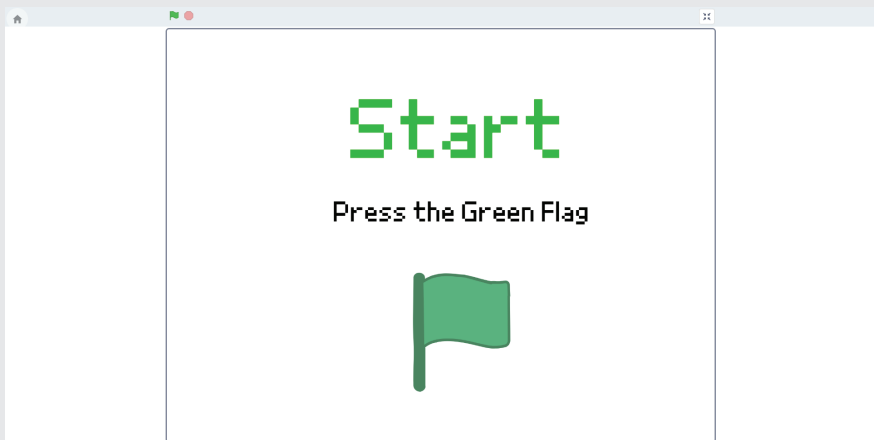
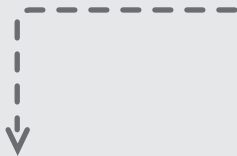
Expand the Sprite window to **full screen**



ADDITION WITH MARTY 9



Press the
Green Flag



SUBTRACTION WITH MARTY

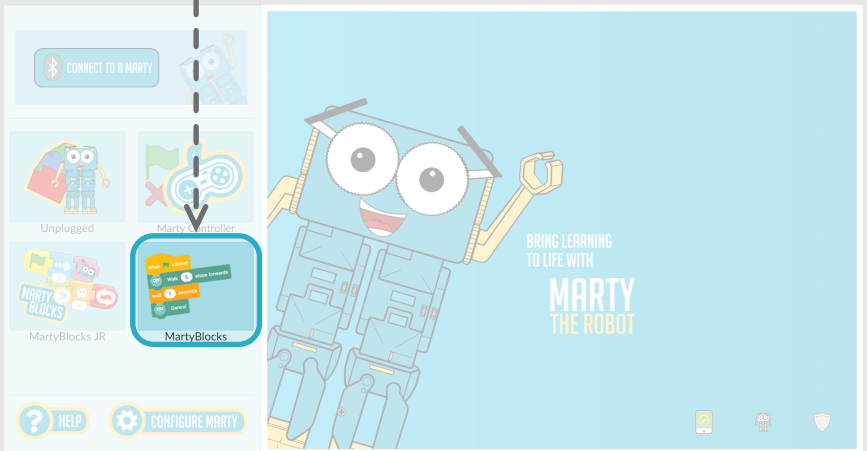
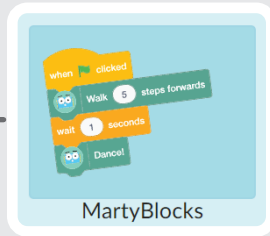
These cards should be completed in numerical order.

1. Subtraction With Marty 1
2. Subtraction With Marty 2
3. Subtraction With Marty 3
4. Subtraction With Marty 4
5. Subtraction With Marty 5
6. Subtraction With Marty 6
7. Subtraction With Marty 7
8. Subtraction With Marty 8
9. Subtraction With Marty 9



SUBTRACTION WITH MARTY 1

Select
MartyBlocks



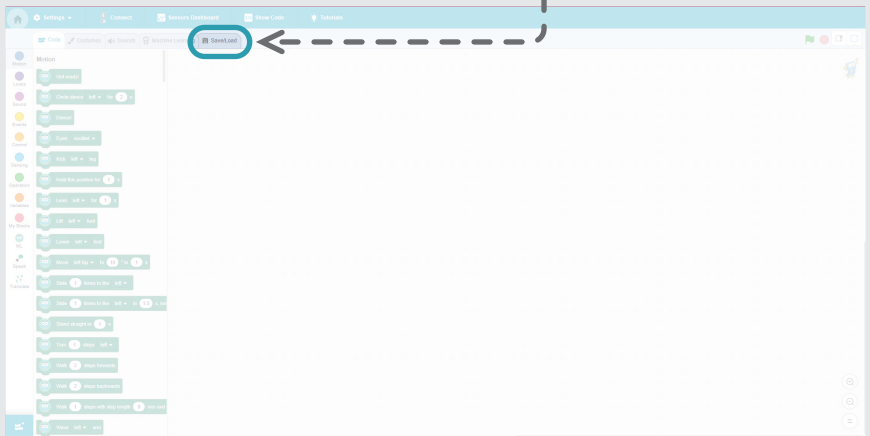
1

SUBTRACTION WITH MARTY 2

Select the
Save/Load tab



Save/Load

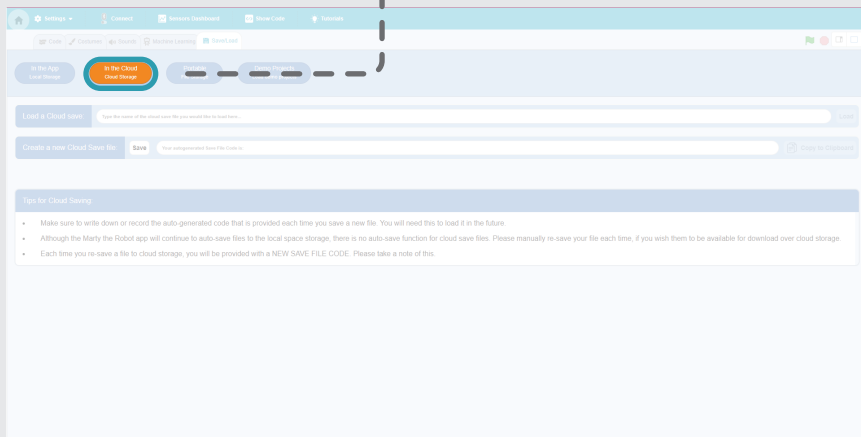


2

SUBTRACTION WITH MARTY 3

In the Cloud
Cloud Storage

Select the **In the Cloud - Cloud Storage** button



The screenshot shows the Marty the Robot software interface. At the top, there is a navigation bar with options like 'Settings', 'Connect', 'Search Dashboard', 'Share Code', and 'Helpdesk'. Below this is a toolbar with buttons for 'In the App', 'In the Cloud - Cloud Storage', 'Examples', and 'Change Blocks'. The 'In the Cloud - Cloud Storage' button is highlighted with an orange oval. Below the toolbar, there is a section for 'Load a Cloud save' with a search bar and a 'Load' button. Below that is a section for 'Create a new Cloud Save file' with a 'Save' button. At the bottom, there is a 'Tips for Cloud Saving' section with three bullet points.

- Make sure to write down or record the auto-generated code that is provided each time you save a new file. You will need this to load it in the future.
- Although the Marty the Robot app will continue to auto-save files to the local space storage, there is no auto-save function for cloud save files. Please manually re-save your file each time, if you wish them to be available for download over cloud storage.
- Each time you re-save a file to cloud storage, you will be provided with a NEW SAVE FILE CODE. Please take a note of this.

SUBTRACTION WITH MARTY 4

Find the **Load a Cloud save:** text box

The image shows a screenshot of the Marty 4 software interface. At the top, there is a search bar with the text "Load a Cloud save:" and a placeholder "Type the name of the cloud save file you would like to load here...". Below this, a dashed arrow points to a button labeled "Load a Cloud save:" in the software's main menu. The software interface includes a top navigation bar with "Settings", "Connect", "Search Dashboard", "Share Code", and "Release". Below the navigation bar, there are several buttons: "In the App Load Model", "Load a Cloud save:", "Portable File Manager", and "Clone Projects Load into program". The "Load a Cloud save:" button is highlighted with a dashed arrow. Below the button, there is a text input field with the placeholder "Type the name of the cloud save file you would like to load here..." and a "Load" button. Below the input field, there is a section titled "Tips for Cloud Saving" with three bullet points:

- Make sure to write down or record the auto-generated code that is provided each time you save a new file. You will need this to load it in the future.
- Although the Marty the Robot app will continue to auto-save files to the local space storage, there is no auto-save function for cloud save files. Please manually re-save your file each time, if you wish them to be available for download over cloud storage.
- Each time you re-save a file to cloud storage, you will be provided with a NEW SAVE FILE CODE. Please take a note of this.

SUBTRACTION WITH MARTY 5

1. Enter the text
SubtractWithMarty

2. Press **Load**

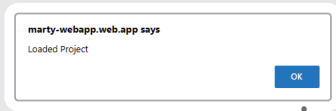
SubtractWithMarty

Load

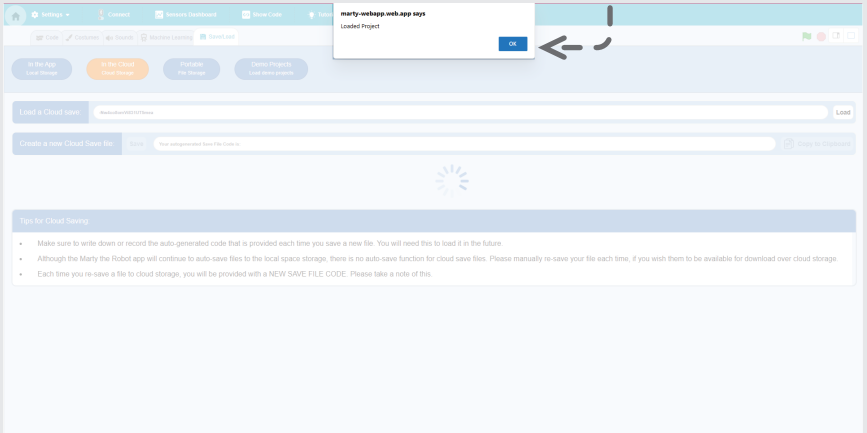
The screenshot shows the Marty 5 web interface. At the top, there are navigation links: Settings, Logout, Search Dashboard, Show Code, and Refresh. Below this is a toolbar with buttons for 'All the App Load Robot', 'Load Save' (highlighted in orange), 'Portable Per Device', and 'Clone Projects Load into Project'. The main content area has a 'Load a Cloud Save' section with a text input field containing 'SubtractWithMarty' and a 'Load' button. Below the input field is a 'Save' button and a note: 'New autogenerated Save File Code is:'. At the bottom, there is a 'Tips for Cloud Saving' section with three bullet points:

- Make sure to write down or record the auto-generated code that is provided each time you save a new file. You will need this to load it in the future.
- Although the Marty the Robot app will continue to auto-save files to the local space storage, there is no auto-save function for cloud save files. Please manually re-save your file each time, if you wish them to be available for download over cloud storage.
- Each time you re-save a file to cloud storage, you will be provided with a NEW SAVE FILE CODE. Please take a note of this.

SUBTRACTION WITH MARTY 6

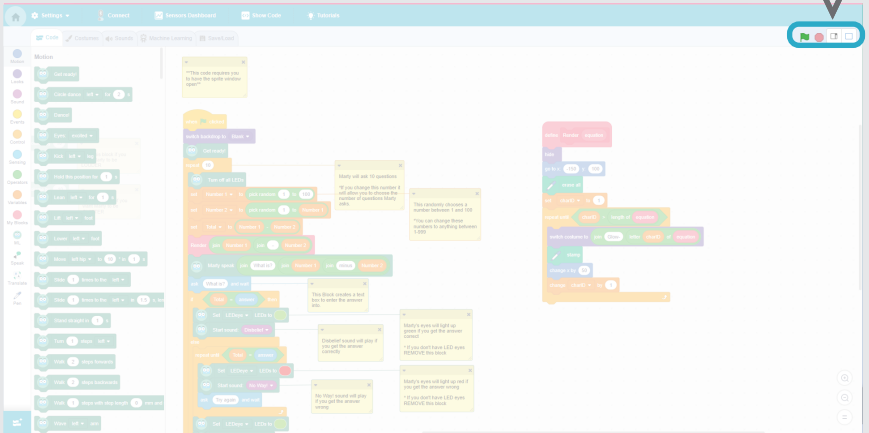
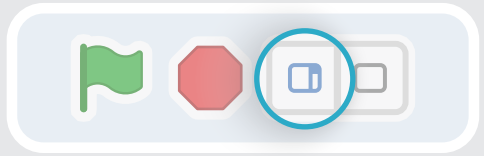


Press **OK**

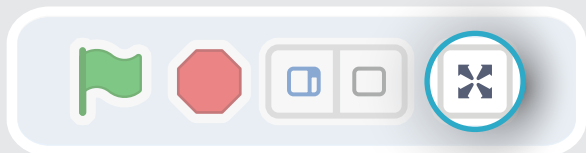


SUBTRACTION WITH MARTY 7

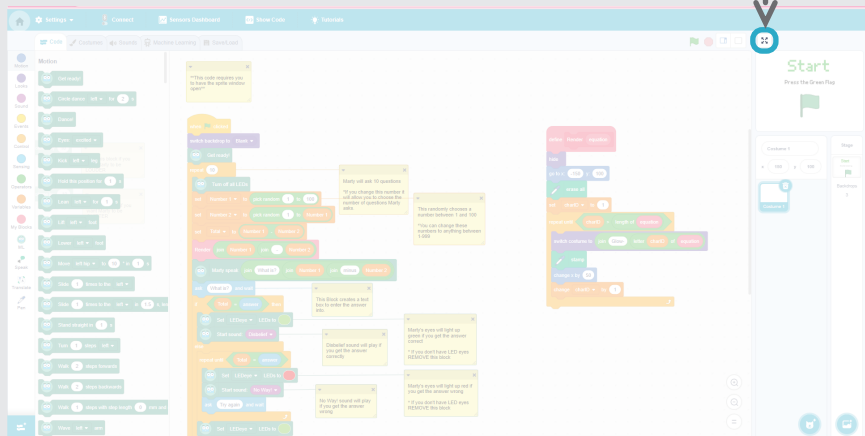
Open the
Sprite window



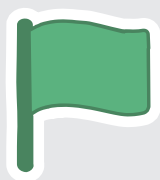
SUBTRACTION WITH MARTY 8



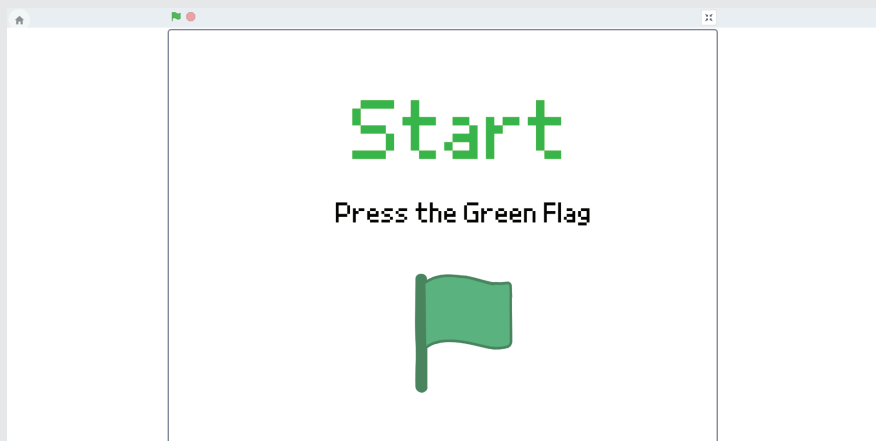
Expand the Sprite window to **full screen**



SUBTRACTION WITH MARTY 9



Press the
Green Flag



MULTIPLICATION WITH MARTY

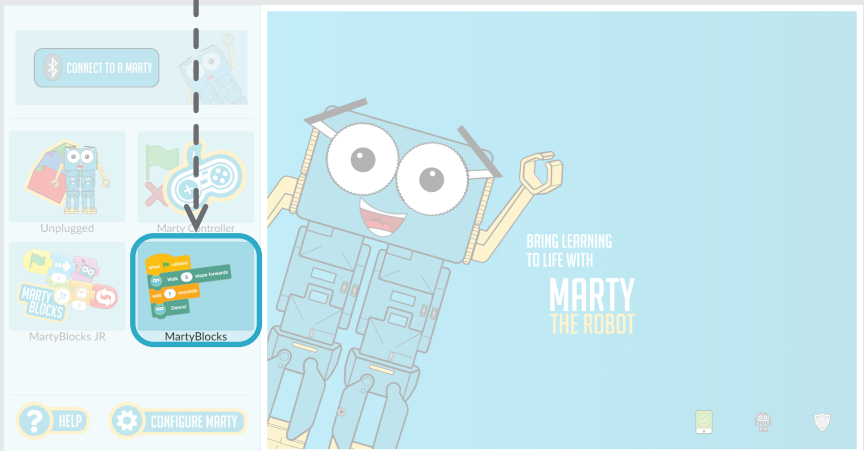
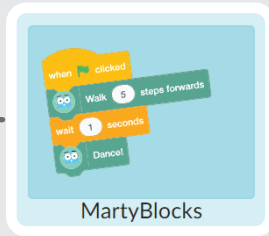
These cards should be completed in numerical order.

1. Multiplication With Marty 1
2. Multiplication With Marty 2
3. Multiplication With Marty 3
4. Multiplication With Marty 4
5. Multiplication With Marty 5
6. Multiplication With Marty 6
7. Multiplication With Marty 7
8. Multiplication With Marty 8
9. Multiplication With Marty 9



MULTIPLICATION WITH MARTY 1

Select
MartyBlocks

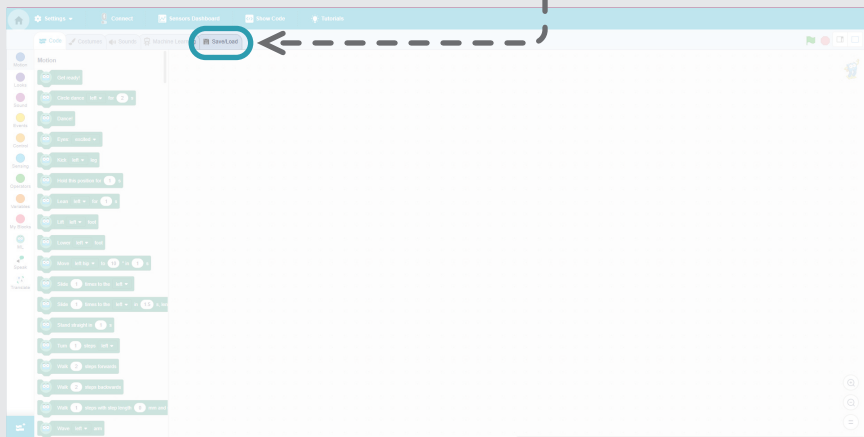


MULTIPLICATION WITH MARTY 2

Select the
Save/Load tab



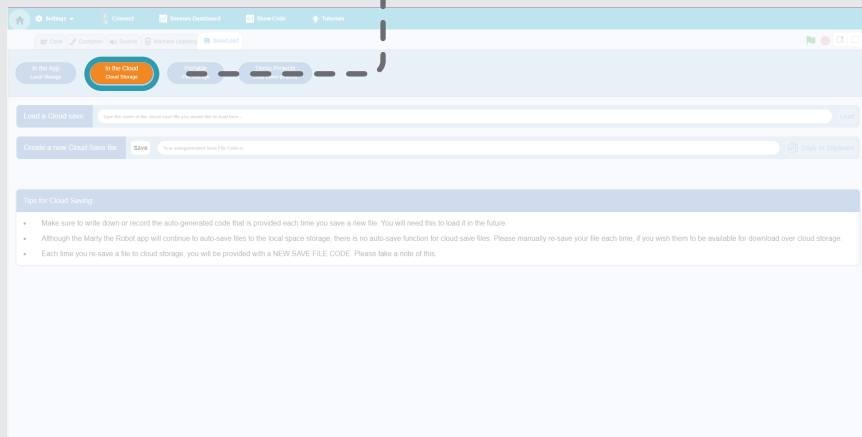
Save/Load



MULTIPLICATION WITH MARTY 3

In the Cloud
Cloud Storage

Select the **In the Cloud - Cloud Storage** button



The screenshot shows the Marty the Robot app interface. At the top, there is a navigation bar with options: Settings, Connect, Research Dashboard, Show Code, and Resources. Below this is a secondary bar with: Code, Camera, My Search, Machine Learning, and Smart Mail. The main interface features a row of buttons: 'In the App - Local Storage', 'In the Cloud - Cloud Storage' (highlighted with an orange circle and a dashed line), 'Enable', and 'Change Storage'. Below the buttons is a section for 'Load a Cloud save' with a text input field and a 'Load' button. Underneath is a 'Create a new Cloud Save file' section with a 'Save' button and a 'New autogenerated name for the Code is:' label. At the bottom, there is a 'Tips for Cloud Storage' section with three bullet points.

- Make sure to write down or record the auto-generated code that is provided each time you save a new file. You will need this to load it in the future.
- Although the Marty the Robot app will continue to auto-save files to the local space storage, there is no auto-save function for cloud save files. Please manually re-save your file each time, if you wish them to be available for download over cloud storage.
- Each time you re-save a file to cloud storage, you will be provided with a NEW SAVE FILE CODE. Please take a note of this.

MULTIPLICATION WITH MARTY 4

Find the **Load a Cloud save:** text box

The image shows a screenshot of the Marty the Robot app interface. At the top, there is a blue header with the text "Load a Cloud save:" and a text input field containing the placeholder text "Type the name of the cloud save file you would like to load here...". A dashed arrow points from this text box down to a larger screenshot of the app's main interface. In the larger screenshot, the "Load a Cloud save:" text box is highlighted with a blue border, and a solid arrow points to it from the "In the Cloud" button in the navigation bar. Below the text box, there is a "Create a new Cloud Save file" section with a "Save" button and a "New autogenerated name for the Code is:" field. At the bottom, there is a "Tips for Cloud Saving" section with three bullet points:

- Make sure to write down or record the auto-generated code that is provided each time you save a new file. You will need this to load it in the future.
- Although the Marty the Robot app will continue to auto-save files to the local space storage, there is no auto-save function for cloud save files. Please manually re-save your file each time, if you wish them to be available for download over cloud storage.
- Each time you re-save a file to cloud storage, you will be provided with a NEW SAVE FILE CODE. Please take a note of this.

MULTIPLICATION WITH MARTY 5

1. Enter the text
MultiplyWithMarty

2. Press **Load**

MultiplyWithMarty

Load

The screenshot shows the Marty 5 web interface. At the top, there are navigation links: Settings, Logout, Search Dashboard, Show Code, and Refresh. Below this is a toolbar with buttons for 'All the App Load Robot', 'Load Save' (highlighted in orange), 'Portable Per Device', and 'Clone Project Load into project'. The main content area has a 'Load a Cloud Save' section with a text input field containing 'MultiplyWithMarty' and a 'Load' button. Below the input field is a 'Save' button and a note: 'New autogenerated Save File Code is:'. At the bottom, there is a 'Tips for Cloud Saving' section with three bullet points:

- Make sure to write down or record the auto-generated code that is provided each time you save a new file. You will need this to load it in the future.
- Although the Marty the Robot app will continue to auto-save files to the local space storage, there is no auto-save function for cloud save files. Please manually re-save your file each time, if you wish them to be available for download over cloud storage.
- Each time you re-save a file to cloud storage, you will be provided with a NEW SAVE FILE CODE. Please take a note of this.

MULTIPLICATION WITH MARTY 6

marty-webapp.web.app says
Loaded Project

OK

Press **OK**

The screenshot shows the Marty the Robot web application interface. At the top, there are navigation tabs: Settings, Connect, Search Dashboard, Show Code, and Help. Below these are buttons for 'Go Home', 'Customize My Robot', 'Browse Learning', and 'Download'. A central row of buttons includes 'In The App', 'In The Cloud', 'Portable', and 'Class Projects'. The main content area has a 'Load a Cloud save' section with a search bar and a 'Load' button. Below that is a 'Create a new Cloud Save file' section with a 'Save' button and a note: 'New autogenerated based on the Code in'. A loading spinner is visible in the center. At the bottom, there is a 'Tips for Cloud Saving' section with a list of instructions.

Load a Cloud save: Load

Create a new Cloud Save file: Save New autogenerated based on the Code in

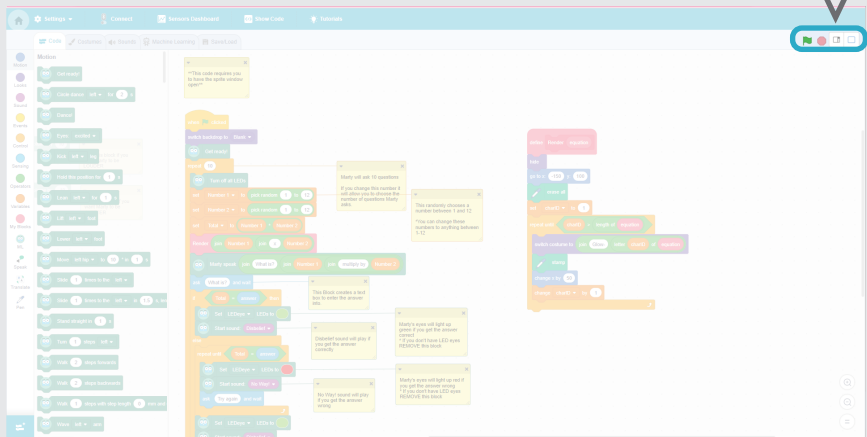
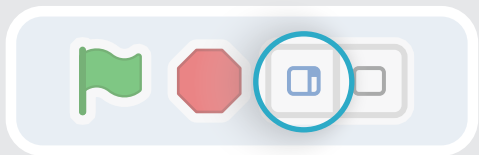
Save

Tips for Cloud Saving

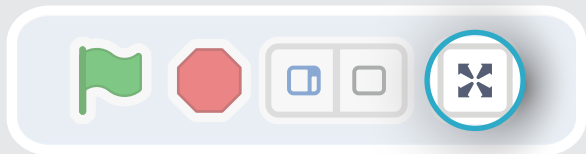
- Make sure to write down or record the auto-generated code that is provided each time you save a new file. You will need this to load it in the future.
- Although the Marty the Robot app will continue to auto-save files to the local space storage, there is no auto-save function for cloud save files. Please manually re-save your file each time, if you wish them to be available for download over cloud storage.
- Each time you re-save a file to cloud storage, you will be provided with a NEW SAVE FILE CODE. Please take a note of this.

MULTIPLICATION WITH MARTY 7

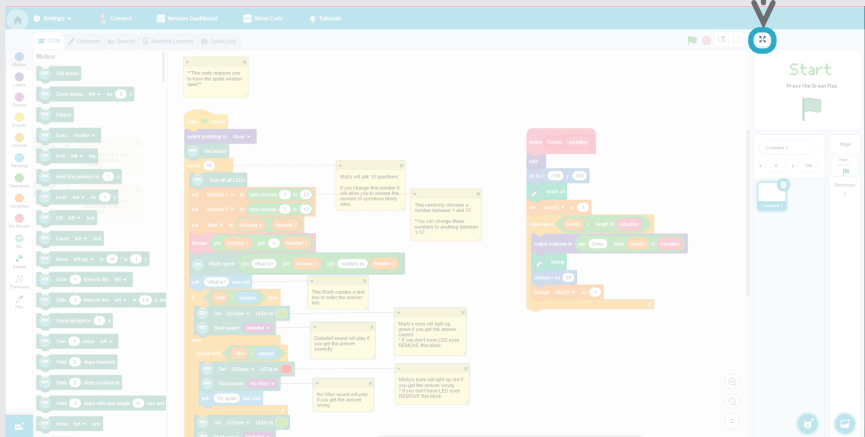
Open the
Sprite window



MULTIPLICATION WITH MARTY 8



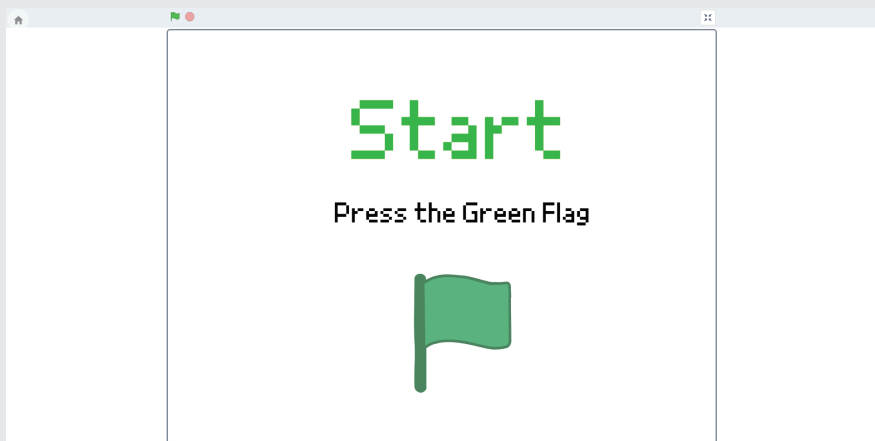
Expand the Sprite window
to **full screen**



MULTIPLICATION WITH MARTY 9



Press the
Green Flag



DIVISION WITH MARTY

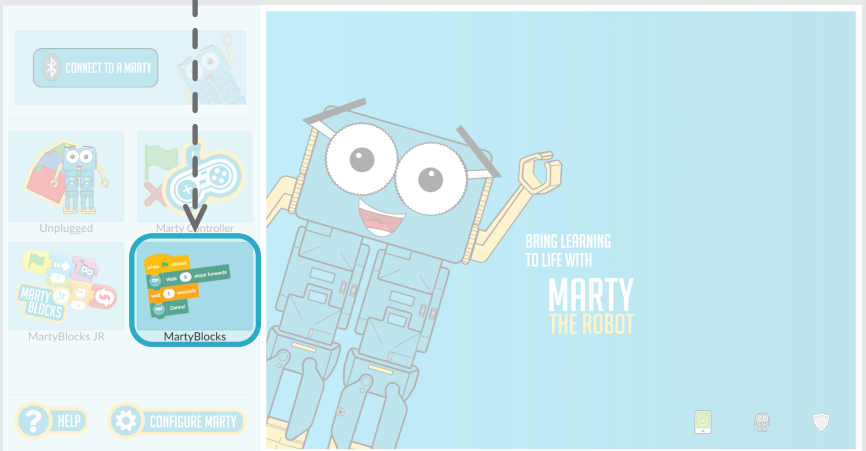
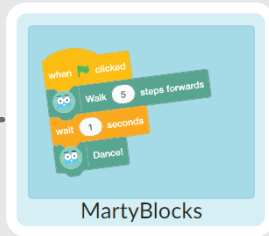
These cards should be completed in numerical order.

1. Division With Marty 1
2. Division With Marty 2
3. Division With Marty 3
4. Division With Marty 4
5. Division With Marty 5
6. Division With Marty 6
7. Division With Marty 7
8. Division With Marty 8
9. Division With Marty 9



DIVISION WITH MARTY 1

Select
MartyBlocks



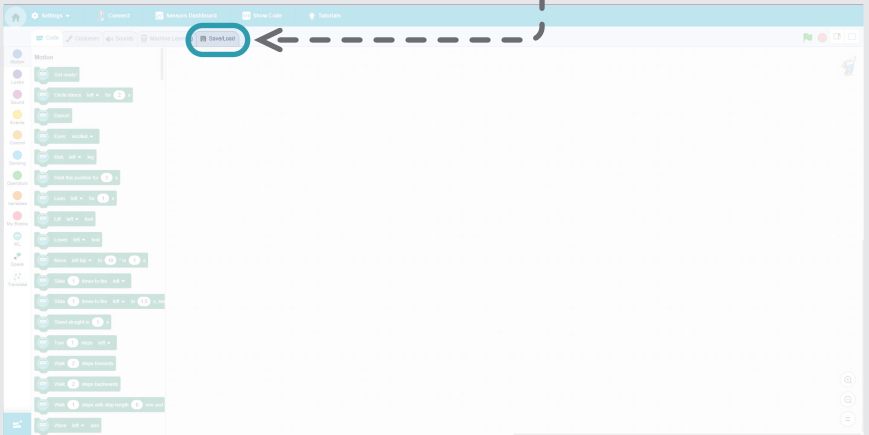
1

DIVISION WITH MARTY 2

Select the
Save/Load tab



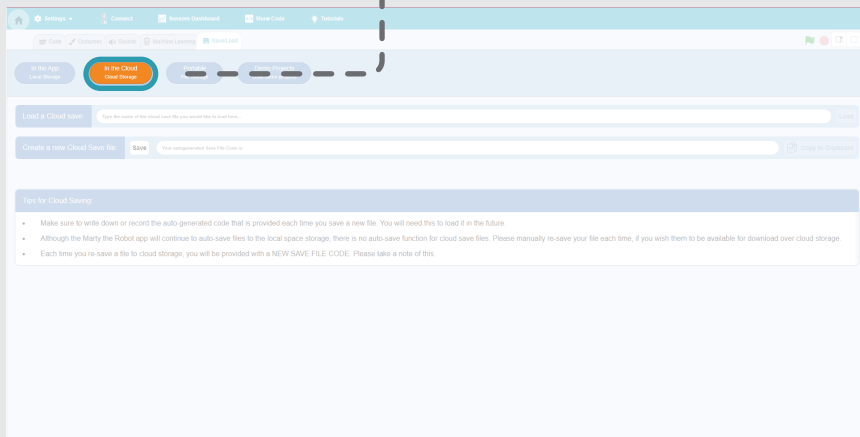
Save/Load



DIVISION WITH MARTY 3

In the Cloud
Cloud Storage

Select the **In the Cloud - Cloud Storage** button



The screenshot shows the Marty the Robot software interface. At the top, there is a navigation bar with options like 'Settings', 'Connect', 'Search Dashboard', 'Share Code', and 'Refresh'. Below this is a toolbar with buttons for 'In the App', 'In the Cloud - Cloud Storage', 'Enable', and 'Change Blocks'. The 'In the Cloud - Cloud Storage' button is highlighted with an orange oval. Below the toolbar, there is a section for 'Load a Cloud save' with a search bar and a 'Load' button. Below that is a section for 'Create a new Cloud Save file' with a 'Save' button and a 'View autogenerated save file code in' link. At the bottom, there is a 'Tips for Cloud Storage' section with three bullet points:

- Make sure to write down or record the auto-generated code that is provided each time you save a new file. You will need this to load it in the future.
- Although the Marty the Robot app will continue to auto-save files to the local space storage, there is no auto-save function for cloud save files. Please manually re-save your file each time, if you wish them to be available for download over cloud storage.
- Each time you re-save a file to cloud storage, you will be provided with a NEW SAVE FILE CODE. Please take a note of this.

DIVISION WITH MARTY 4

Find the **Load a Cloud save:** text box

The image shows a screenshot of the Marty the Robot software interface. At the top, there is a blue header bar with the text "Load a Cloud save:" and a text input field containing the placeholder text "Type the name of the cloud save file you would like to load here...". A dashed arrow points from this text box down to a larger screenshot of the software interface. In the larger screenshot, the "Load a Cloud save:" text box is highlighted with a blue border, and a solid arrow points to it from the "In the Cloud" button in the top navigation bar. Below the text box, there is a "Create a new Cloud Save file" section with a "Save" button and a "New autogenerated name for the Code is:" field. At the bottom, there is a "Tips for Cloud Saving" section with three bullet points:

- Make sure to write down or record the auto-generated code that is provided each time you save a new file. You will need this to load it in the future.
- Although the Marty the Robot app will continue to auto-save files to the local space storage, there is no auto-save function for cloud save files. Please manually re-save your file each time, if you wish them to be available for download over cloud storage.
- Each time you re-save a file to cloud storage, you will be provided with a NEW SAVE FILE CODE. Please take a note of this.

DIVISION WITH MARTY 5

1. Enter the text
DivisionWithMarty

2. Press **Load**

DivisionWithMarty

Load

The screenshot shows a web application interface with a light blue header and a white main content area. The header includes a home icon, a 'Settings' dropdown, a 'Logout' button, a 'Search Dashboard' button, a 'Show Code' button, and a 'Refresh' button. Below the header, there are several buttons: 'All the App Load More', 'Load More' (highlighted in orange), 'Portfolio Per Device', and 'Clone Projects Load More Projects'. The main content area features a 'Load a Cloud Save' section with a text input field containing 'DivisionWithMarty' and a 'Load' button. Below this is a 'Create a new Cloud Save file' section with a 'Save' button and a note: 'New autogenerated from the Code is...'. At the bottom, there is a 'Tips for Cloud Saving' section with three bullet points: 'Make sure to write down or record the auto-generated code that is provided each time you save a new file. You will need this to load it in the future.', 'Although the Marty the Robot app will continue to auto-save files to the local space storage, there is no auto-save function for cloud save files. Please manually re-save your file each time, if you wish them to be available for download over cloud storage.', and 'Each time you re-save a file to cloud storage, you will be provided with a NEW SAVE FILE CODE. Please take a note of this.'

DIVISION WITH MARTY 6

marty-webapp.web.app says
Loaded Project

OK

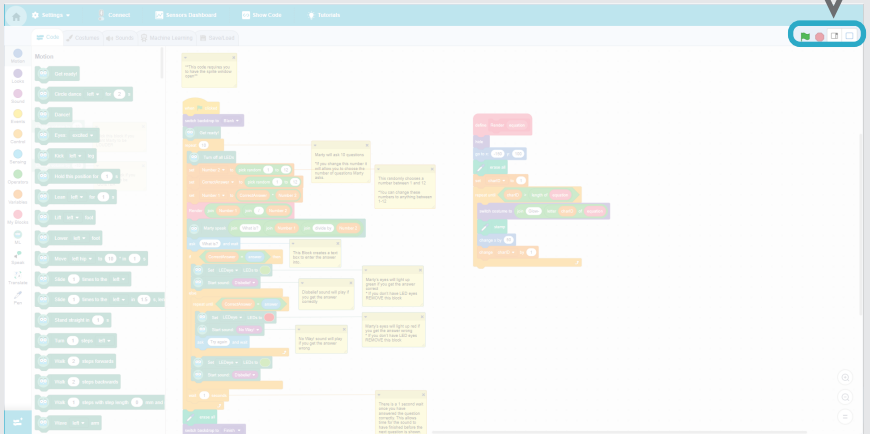
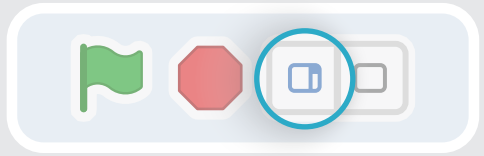
Press **OK**

The screenshot shows the Marty the Robot web interface. A dialog box titled "marty-webapp.web.app says" with the message "Loaded Project" and an "OK" button is overlaid on the page. A dashed line with an arrow points from the "OK" button in the dialog box to the text "Press OK". Below the dialog box, the main interface is visible, including a navigation bar with "Home", "Settings", "Connect", "Search Dashboard", "Share Code", and "Help". There are buttons for "Go to the App", "Go to the Cloud", "Findable the Device", and "Clone Projects". A "Load a Cloud save" section is present, with a search bar and a "Load" button. Below this is a "Create a new Cloud Save file" section with a "Save" button and a note: "New autogenerated based on the Code in". A loading spinner is visible in the center of the page. At the bottom, there is a "Tips for Cloud Saving" section with the following list:

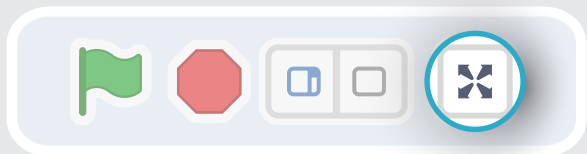
- Make sure to write down or record the auto-generated code that is provided each time you save a new file. You will need this to load it in the future.
- Although the Marty the Robot app will continue to auto-save files to the local space storage, there is no auto-save function for cloud save files. Please manually re-save your file each time, if you wish them to be available for download over cloud storage.
- Each time you re-save a file to cloud storage, you will be provided with a NEW SAVE FILE CODE. Please take a note of this.

DIVISION WITH MARTY 7

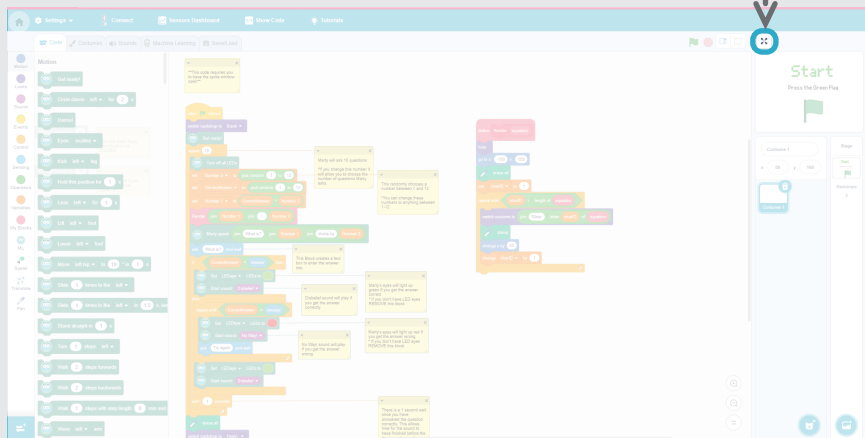
Open the
Sprite window



DIVISION WITH MARTY 8



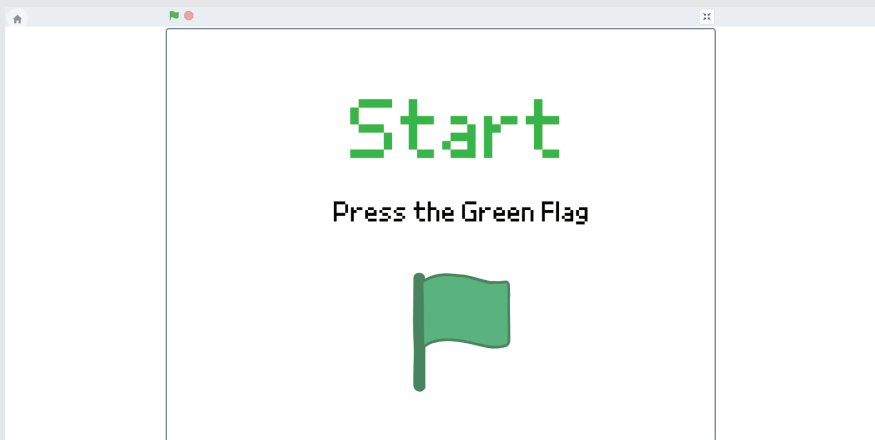
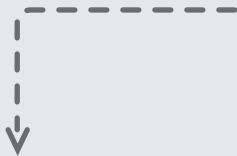
Expand the Sprite window to **full screen**



DIVISION WITH MARTY 9



Press the
Green Flag



MARTY MATH RACE

These cards should be completed in numerical order.

1. Marty Math Race 1
2. Marty Math Race 2
3. Marty Math Race 3

For this activity you will need:

- At least 2 players
- A Marty per player
- A devices for each player (laptop or tablet)



MARTY MATH RACE 1

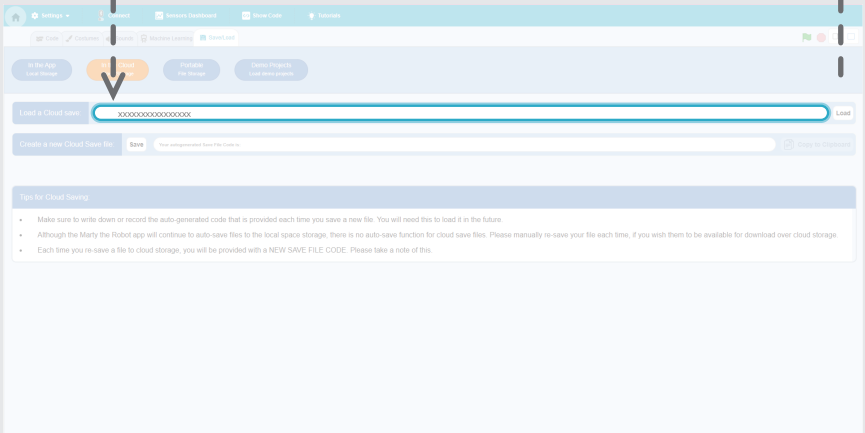
1. Load code from any of the previous activities:

- **AdditionWithMarty**
- **SubtractWithMarty**
- **MultiplyWithMarty**
- **DivisionWithMarty**

2. Press **Load**

XXXXXXXXXXXXXXXXXXXX

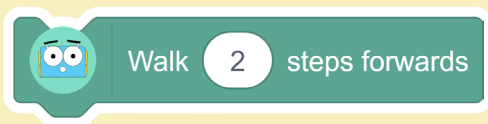
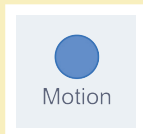
Load



1

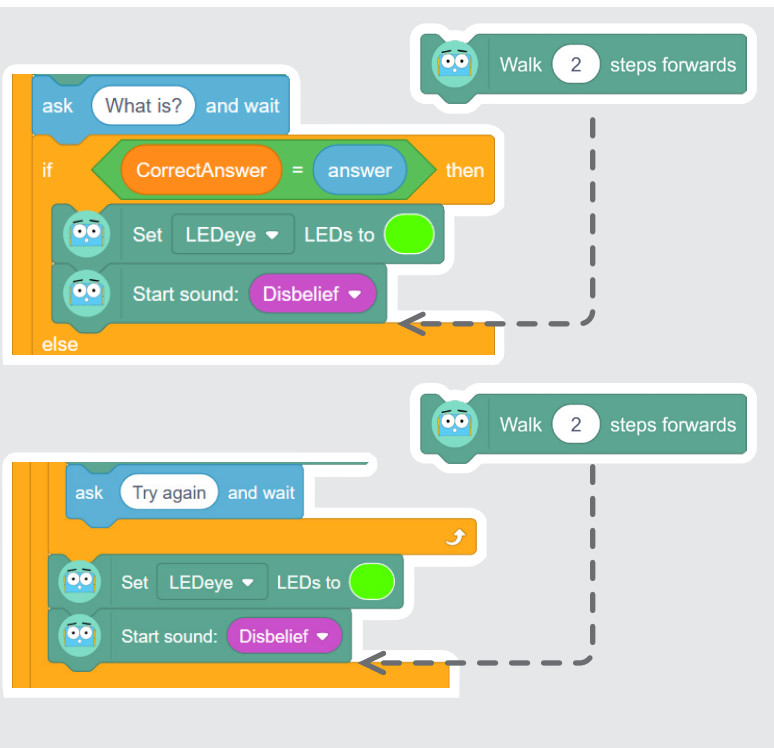
MARTY MATH RACE 2

Find



Find this block in the Motion menu

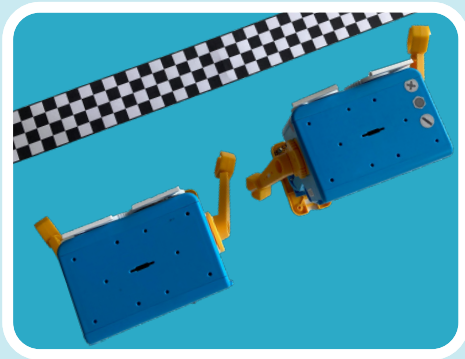
Add



2

MARTY MATH RACE 3

Go



Create a race course.



Press the **Green Flag** and race!

Who's going to cross the finish line first?

