

INSTRUCTIONS:**Goal of the Project:**

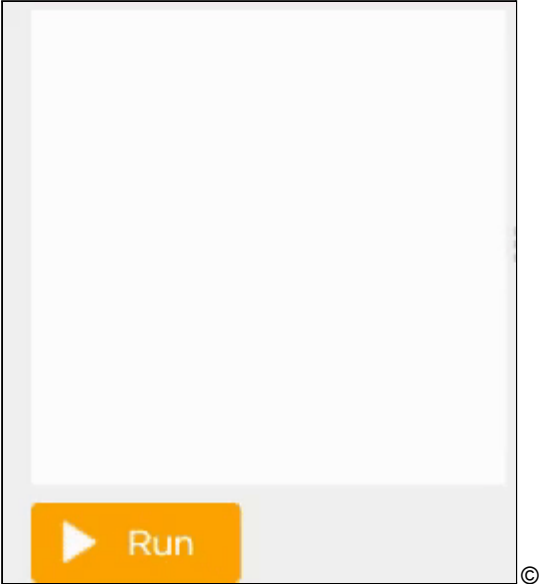

In Class 3, you learned about binary strings which are created using 0 and 1. You drew different patterns using binary strings.

In this project, you will have to practice and apply what you have learned in the class and make a design using binary strings of 0 and 1.

Story:

Reshma likes to draw. She has to draw a lock pattern - either a white lock on the black background or a black lock on the white background.

Can you help her?


Initial Output	Final Output
	

***This is just for your reference. We expect you to apply your creativity to the project.**

Getting Started:


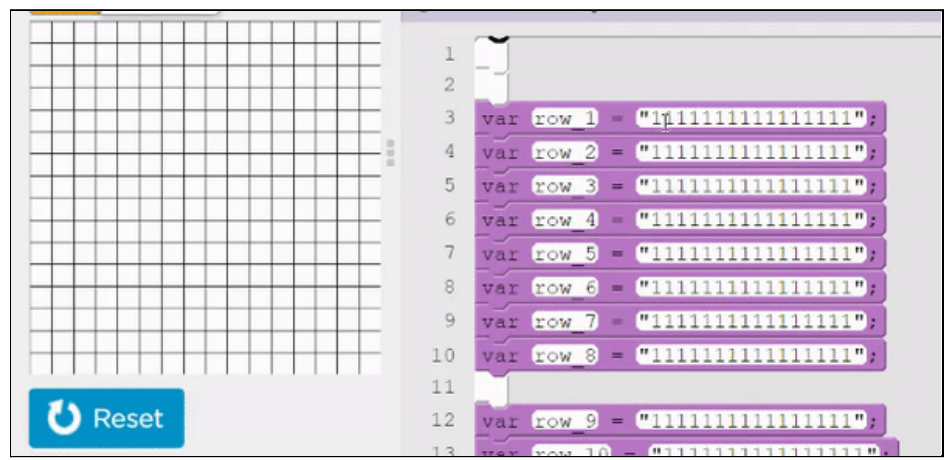
1. Login to code.org



2. Click  to open [Project Template](#).
3. Click the **Remix** button.
4. Rename the project to **Project 3** and click the **Save**.


Specific Tasks to complete the Project:

As you can see 16 lines have been added for you.

Task to be Done:	<div data-bbox="443 982 602 1024">Step 1</div>  <div data-bbox="792 1066 1045 1199">Changing digit from 1 to 0 will make that particular square black.</div>
Expected Output:	 The screenshot shows a 16x16 grid on the left and a code editor on the right. The code editor contains 16 lines of JavaScript code, each defining a row variable (row_1 to row_16) with a string of 16 '1's. A "Reset" button is visible at the bottom left of the grid area.

Task to be Done:

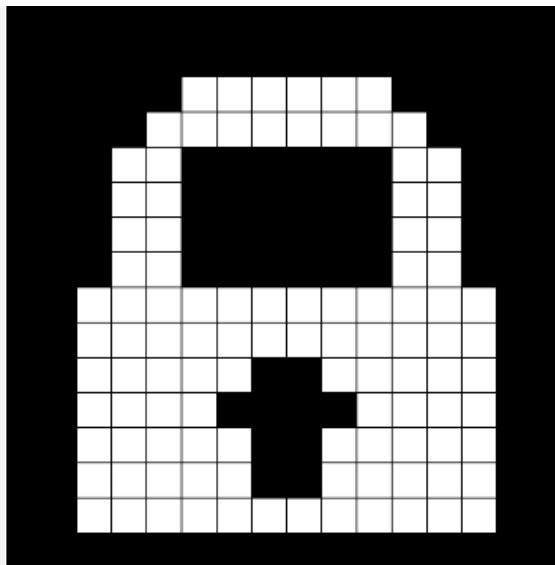
Step 2



Set all 16 lines pattern to create the lock design by changing 1 to 0 at appropriate places.

var row 1	= "0000000000000000"
var row 2	= "0000000000000000"
var row 3	= "0000011111100000"
var row 4	= "0000111111100000"
var row 5	= "0001100000011000"
var row 6	= "0001100000011000"
var row 7	= "0001100000011000"
var row 8	= "0001100000011000"
var row 9	= "0011111111111000"
var row 10	= "0011111111111000"
var row 11	= "0011111001111100"
var row 12	= "0011110000111100"
var row 13	= "0011111001111100"
var row 14	= "0011111001111100"
var row 15	= "0011111111111000"
var row 16	= "0000000000000000"

Expected Output:



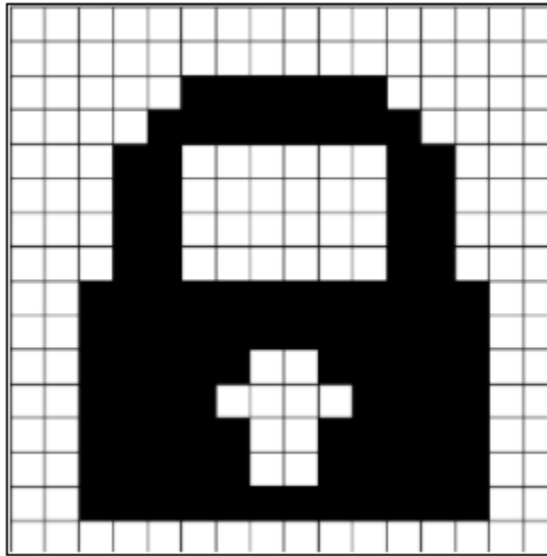
Task to be Done:

Step 3



You can show the lock design as **black lock on white background** too.

Expected Output:

**Step 4**

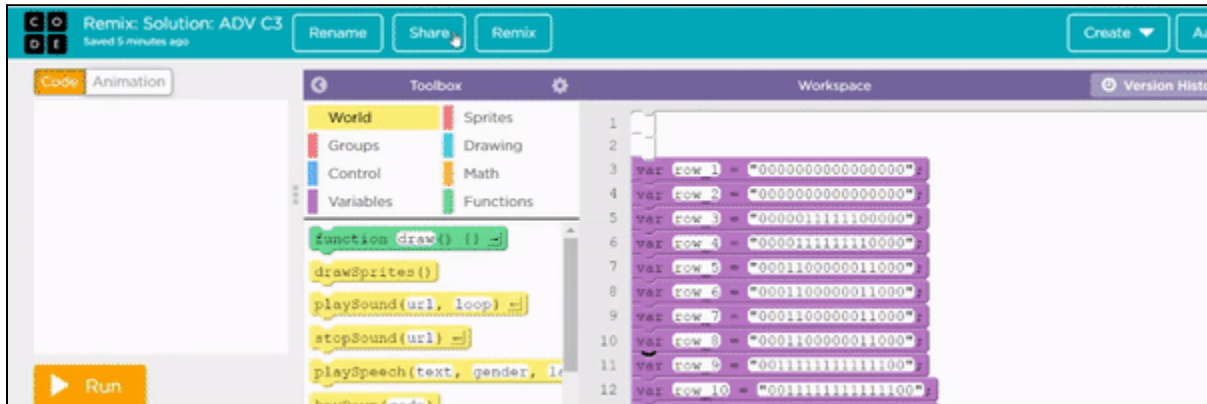
Click **Run**, to check if the code is working correctly.

***DO NOT CHANGE the position and the IDs of the labels and buttons given in the Project Template.**

*Refer to the images given above for reference.

Submitting the Project:

1. Click **Share** to generate a shareable link.



2. **Paste the URL** on the **Student Dashboard > Projects** panel against the correct Class Number.

Paste your project URL

Submit Project

REMEMBER... Try your best, that's more important than being correct.

After submitting your project your teacher will send you feedback on your work.

_____ xxx _____ xxx _____ xxx _____ xxx _____ xxx _____