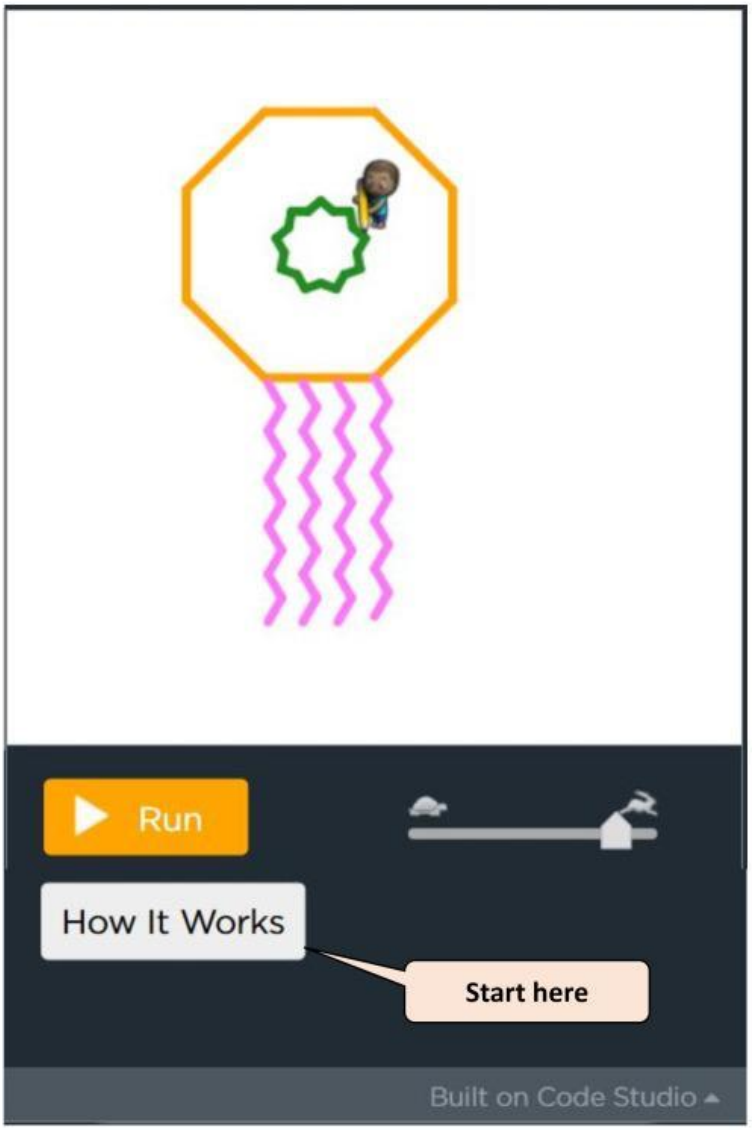
Project 45

DP EDUCATION

Coding School

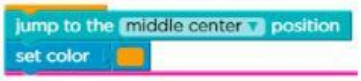


LIVEWORKSHEETS

Let's create a Vesak Lanterns.

For this, let's first position the artist. Take the "Jump to position" block to the center of the screen. Use the value "middle center" for this.

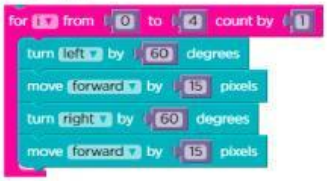
- Choose orange color to create the surround of Vesak lantern. Use the "set color" block for that.



- Then turn 45 degrees to the left and move 60 pixels forward to create the hexagon. In this way, the artist has to walk 8 times to complete the hexagon by following the same steps again and again. Because the same steps are repeated, these blocks can be included in a for loop. The length of the loop is 8. Since the loop starts at 0, create it to loop until 7. The count should be one by one.

- At the end of creating the hexagon the artist is facing east so he has to turn 120 degrees south to create the ripples of the Vesak lantern.
- Use the same blocks as above to make the waves pink.
- Before creating a wave, you must turn left 60 degrees and move forward 15 pixels, then turn left 60 degrees and move another 15 pixels.

- By repeating the above steps, a complete wave can be drawn. Since several steps are repeated, it is easier to put them in a for loop.

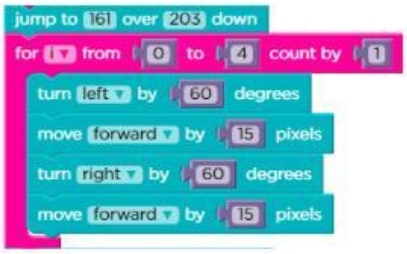


- After that, the artist should be repositioned to create the other wave. Let's use the "jump to over down" block for that. Give x and y values to this block where Artist should be positioned. (180,203)

- Now draw the other wave again as above. For that also use the for loop as above.

LIVEWORKSHEETS

- To create the remaining two waves, after positioning the artist correctly, create the waves as described above using the for loop.



- Finally, the star-shaped koda in the middle of the Vesak lantern can be designed as follows.
- First use the following to make the star color green.

- The artist must be repositioned to create the star. Let's use the "jump to over down" block for that. Give x and y values to this block where Artist should be positioned. (195,124)

- Get the draw a start block to create the star. Give 9 for its points and 9 for its length.

LIVEWORKSHEETS