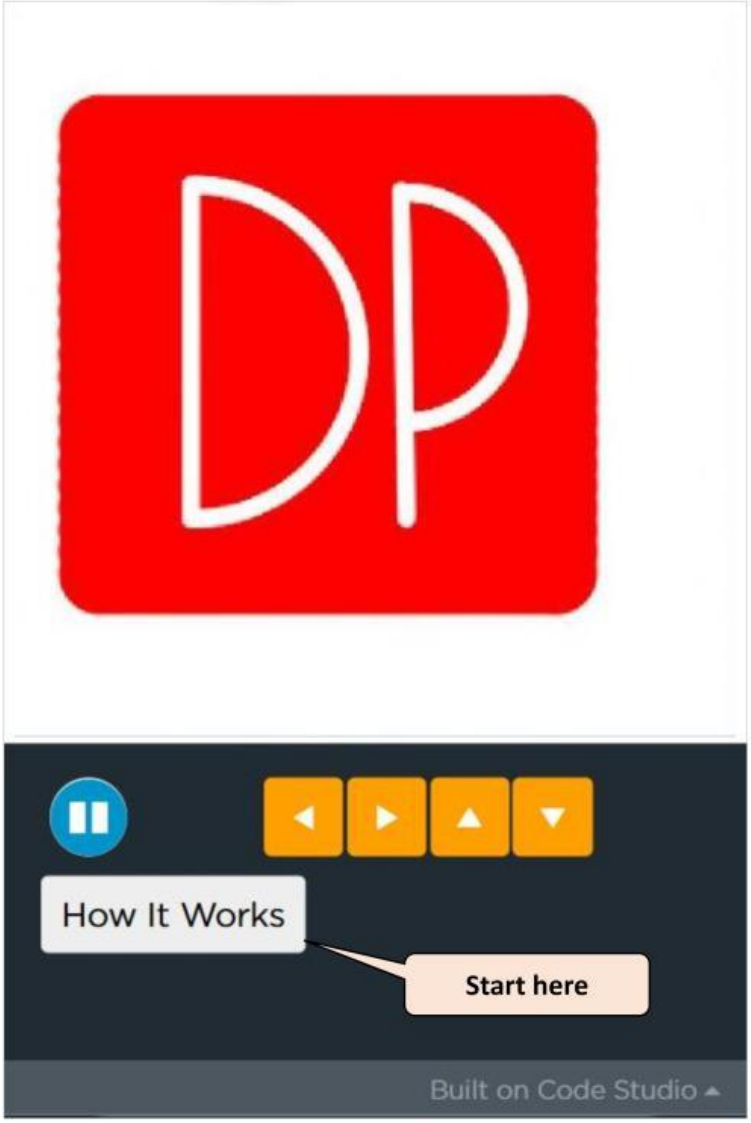
Project 56

DP EDUCATION

Coding School

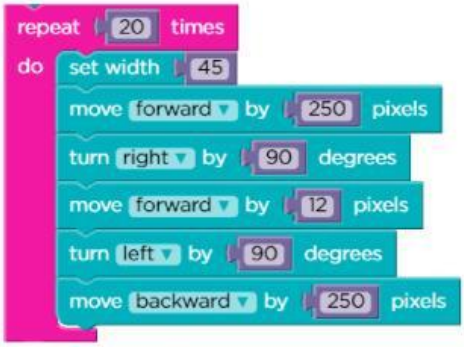


LIVEWORKSHEETS

- Let's position the artist so that X= 50 and Y= 70 by the "Jump to over down" block.

- Select the red color to create a red rectangular background. Use the "set colour" block for that.

- First, adjust the size of the brush to 45 with the "set width" block. Then, with the "move forward" block, move forward 250 pixels, turn right by 90 degrees, move forward again by 12 pixels, turn left by 90 degrees, and move back 250 pixels. Use the "repeat do" block to repeat the process 20 times.

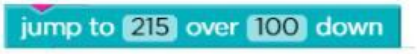


- Use the "jump to over down" block to position X= 100 and Y= 100, adjust the size of the brush to 10, and use the "set color" block to select white color. For that use blocks as below.

- Now let's create the letter "D". The artist turns right by 90 degrees and the "move forward" block moves forward 180 pixels and turns left by 90 degrees. The related blocks are as follows.

- The "move forward" block moves forward 1.6 pixels and turns left by 1 degree. Use the for loop block as follows to create a semicircle.

- Take positions as indicated by the "jump to over down" block.



LIVEWORKSHEETS

- Let's create the letter “P”. The artist turns 90 degrees to the left with the "move forward" block and moves forward 180 pixels, and with the "jump backward" block moves 53 pixels backwards and turns left by 90 degrees. The related blocks are given below.

```
turn left by 90 degrees
move forward by 180 pixels
jump backward by 53 pixels
turn left by 90 degrees
```

- The "move forward" block moves forward 1.1 pixels and turns left by 1 degree. Here also use the for loop block as follows to create a semicircle.

```
for i from 0 to 180 count by 1
    move forward by 1.1 pixels
    turn left by 1 degrees
```

- Place the artist in the upper left corner of the screen as follows.

```
jump to the top left position
```

Select the correct answer

.

1. Which block set is used to colour the entire screen black?

```
jump to 200 over 200 down
repeat 20 times
do set width 45
    move forward by 400 pixels
    turn right by 90 degrees
    move forward by 20 pixels
    turn left by 90 degrees
    move backward by 400 pixels
```

```
jump to 0 over 0 down
repeat 20 times
do set width 45
    move forward by 400 pixels
    turn right by 90 degrees
    move forward by 20 pixels
    turn left by 90 degrees
    move backward by 400 pixels
```

```
jump to 0 over 0 down
repeat 20 times
do set width 45
    move forward by 200 pixels
    turn right by 90 degrees
    move forward by 10 pixels
    turn left by 90 degrees
    move backward by 200 pixels
```

LIVEWORKSHEETS

2. Select the relevant block to create a circle from the following blocks.

3. Select the blocks to apply to achieve this design.

4. What blocks should be used to create a line like this?

5. What should be applied to get this design?

LIVEWORKSHEETS