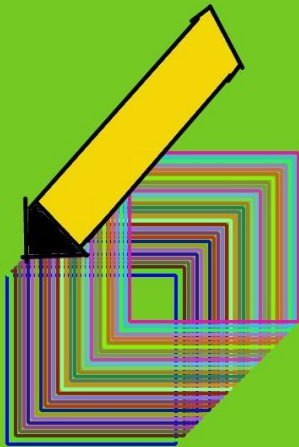


Tap On Screen to Draw
Colorful Pattern



**Learn to program on phone
with Pocket Code**

Lesson 4: My Colorful Pattern

About CEL

Code to Enhance Learning is nonprofit uses coding as a tool to build critical thinking, creativity, collaboration and perseverance in children in grade 5-9.

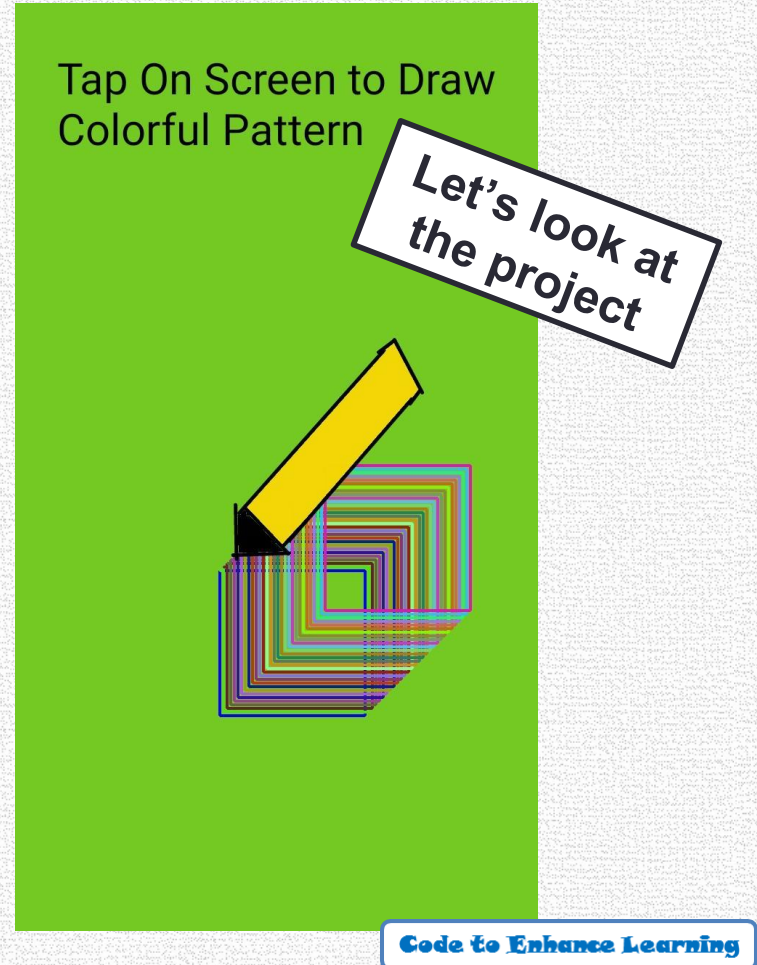


Lesson 4

Colorful Pattern

Objective:

We will make an application to draw a Colorful Pattern.



Let's Recall:

1. What is Sequence?

A logical Order

2. What is Events?

An event in an action due to which something happens.

3. What is Loop?

Repeats a sequence of instructions

Nested Loop

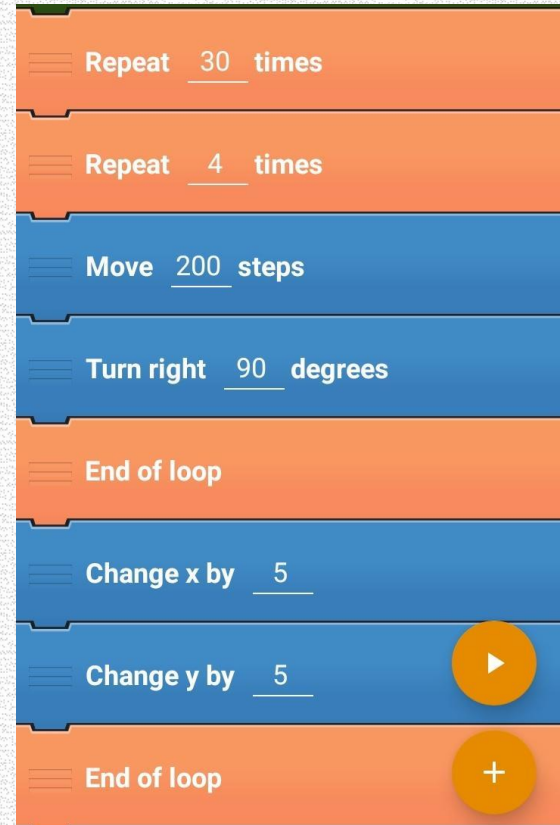
A Nested Loop is a loop within a loop, An inner loop within a body of an outer one.

For Example- In a clock, consider hour gear as outer loop and minute gear as inner loop. So After minute gear completes its rotation one times 60 minute completes, hour gear will show as one hour.



Talk to your partner:

- Where have you seen nested loop?



Colorful Pattern: (Teacher Models)

Let's do abstraction (i.e. to identify important details) to make understand project and make it simple

1) What will happen on the stage?

➤ On tapping the screen, the pencil sprite will draw a Colorful Pattern for us.

2) What sprite and backdrop will be needed on the stage?

Backdrop



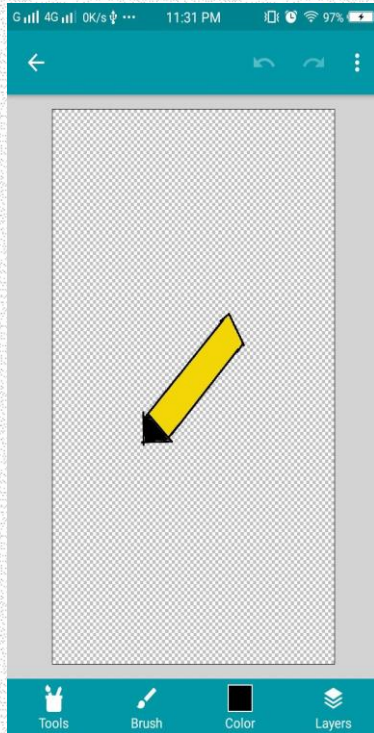
Sprite



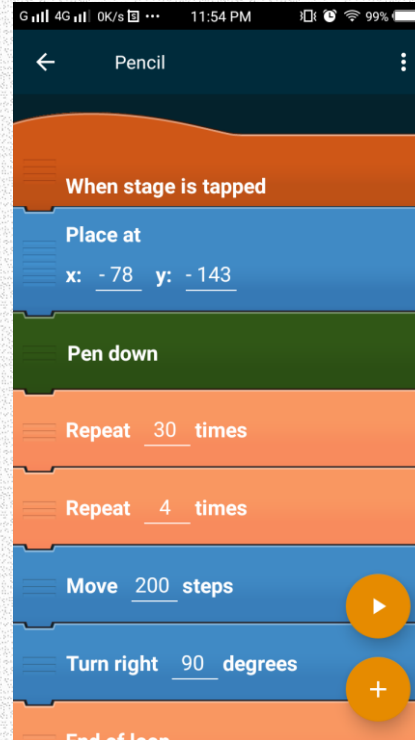
Colorful Pattern : (Teacher Models)

Let's make the project and write codes for the sprites...

Sprite



Codes/Programs



Quiz:

1. What is Nested loop?

Quiz:

2. Which of the following code will help you to get different color every time?

A)

```
Set pen color to  
red 20 green 50 blue 255
```

B)

```
Set pen color to  
red 0 green 0 blue 255
```

C)

```
Set pen color to  
red 255 green 255 blue 255
```

D)

```
Set pen color to  
red random... green random... blue random...
```

Closing:

- What did we do today?
- What is one thing that you liked in the class the most?
- What did you learn?

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Website: www.codetoenhancelearning.org