Learn to program on phone with Pocket Code

Lesson 4: My Colorful Pattern
About CEL

Code to Enhance Learning is a nonprofit that uses coding as a tool to build critical thinking, creativity, collaboration, and perseverance in children in grades 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?
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?
Colorful Pattern : (Teacher Models)

Let’s make the project and write codes for the sprites…
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 rando... green rando... blue rando...
Closing:

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

Website: www.codetoenhancelearning.org