

Loops Work Sheet: 03-ALG-10-WS



Introduction:

In this section, we would be learning to draw simple patterns using loops. Let us solve some simple questions related to loops ---> The action of doing something over and over again is called a loop. Drawing same picture for five times would be called as a loop of drawing same picture.

Questions:

1. Can you draw the following pattern using a loop? How?

VVVVVV

2. How many lines are needed to draw the following pattern? Can it be drawn using a loop? Why and how?



- 3. Make two equal groups of students. Give one pattern to each group and ask them to study their respective pattern. Each group would have to come up with the following:
 - a. What is a smallest possible action that can be repeated to draw a shape
 - b. How many times this action should be repeated to draw a chosen shape
 - c. How would you explain to someone how to draw that shape?
 - d. How could you explain this using a loop?

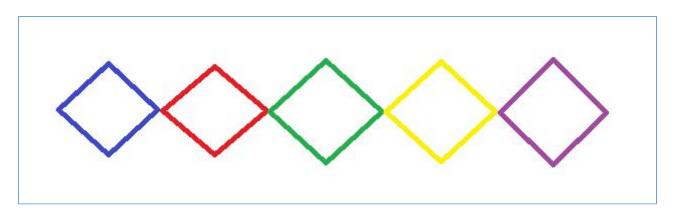
Once they are done, both the groups would help another group to draw the pattern
which only they have seen with the help of instructions – with and without loops.
Variation: A group can be further split into two, where half of Group 1 can instruct hal
of Group 2 without using loops and other half of Group 1 can instruct other half of
Group 2 using loops.

Name: Class: Div: Roll. No:

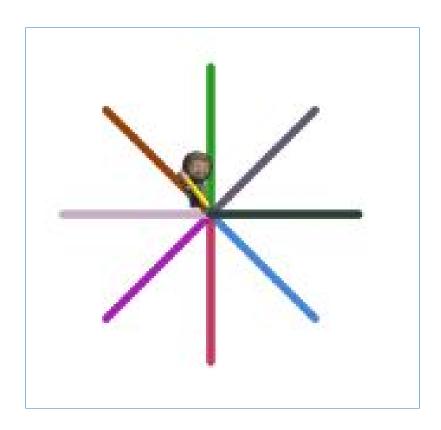


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Group 1



Group 2

Name: Class: Div: Roll. No: