

## **C Language**

### **Project - 4**

#### **Circlet**

## **Project Definition:** Circlet

### **Overview:**

This project aims to develop a program in C language that demonstrates the use of nested for loop for pattern printing. The program will print different patterns based on loop conditions.

### **Time Allocation:**

- Total Duration: 1 Hour
- Total Marks: 10

### **Instructions:**

1. Attempt all assigned tasks.
2. Make suitable assumptions wherever necessary.
3. Upload your exam task by uploading the project to GitHub and submitting the GitHub repository link which must have screenshots of your output in a README.md file.
4. This project is individual-based; copying code from classmates is prohibited.

Remember to follow the instructions provided professionally, make suitable assumptions wherever necessary, and avoid copying code or content from any unauthorized sources. Good luck with your project work!

### **Marking Criteria:**

The pattern numbers 1 to 4 have 1 mark for completion. Pattern numbers 5 to 7 have 2 marks for completion.

### **Problem Statements:**

**Q.1** Develop a program that prints the given Right half triangle pattern using a nested for loop.

```
41
41 42
41 42 43
41 42 43 44
41 42 43 44 45
```

**Q.2** Develop a program that prints the given Floyd's triangle pattern using a nested for loop.

```
11
12 13
14 15 16
17 18 19 20
```



**Q.3** Develop a program that prints the given Left half triangle pattern using a nested for loop.

```
5
4 5
3 4 5
2 3 4 5
1 2 3 4 5
```

**Q.4** Develop a program that prints the given Inverted Left half triangle pattern using a nested for loop.

```
1 0 1 0 1
1 0 1 0
1 0 1
1 0
1
```

**Q.5** Develop a program that prints the given Full Pyramid pattern using a nested for loop.

```
5
4 5 4
3 4 5 4 3
3 3 4 5 4 3 2
1 2 3 4 5 4 3 2 1
```

**Q.6** Develop a program that prints the given Custom numeric pattern using a nested for loop.

```
1           1
1 2         2 1
1 2 3       3 2 1
1 2 3 4     4 3 2 1
1 2 3 4 5 5 4 3 2 1
```

**Q.7** Develop a program that prints the given Custom alphabetic pattern using a nested for loop.

```
* * * * *
*       *
* * * * *
*
*
```

**Looper**  
C Language

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**BRING ON YOUR CODING ATTITUDE**

