(CL1002) Programming Fundamentals Lab

Lab 9 Task:

- Before doing the task, I recommend you all to go through the lab manual. It will make it easy for you all to understand this.
- Copied task will be awarded **zero** marks.
- Upload only a MS word and PDF file including all tasks source code and its output (screen shot).
- You have to copy the source code in your word file. Don't take the screen shot of source code.
- Use the following format for naming the word file Rollno_name (21P-1234_zain).
- Comments your Code Properly
- 1. Write a python program that prints the following patterns separately one below the other. Use nested for loop to generate the patterns.

*	*******	*******	*
**	*******	*******	**
***	******	******	***
****	******	******	****
****	*****	*****	****
*****	****	****	*****
*****	****	****	*****
******	***	***	******
******	**	**	******
********	*	*	*******

2. Write a Python function to construct the following pattern, using a for loop. User should enter a symbol e.g *,^,@,- etc, and your function should a pattern like this of that symbol **Sample Output:**

3. Write a program the prompts the user for information for three students. For each student prompt for the student ID and three quiz grades. Use a nested loop, where the inner loop prompts for the three quiz grades. Print the student's name and average – formatted to two decimal places. View the sample output as a guide.

Sample Output:

```
Enter the name of student 1: Ali
Enter Score 1: 78
Enter Score 2: 90
Enter Score 3: 91
Name: Ali
Average: 86.33
Enter the name of student 2: Hamza
Enter Score 1: 70
Enter Score 2: 75
Enter Score 3: 93
Name: Hamza
Average: 79.33
Enter the name of student 3: Zain
Enter Score 1: 55
Enter Score 2: 76
Enter Score 3: 80
Name: Zain
Average: 70.33
```

Additional Task (Not Graded)

4. Write a Python function to construct the following pattern, using a for loop. User should enter a symbol e.g *,^,@,- etc, the number of rows and your function should a pattern like this of that symbol.

Sample Output: