

## TASK 4

1. Write a program to print the pattern given below.

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

### PROGRAM

```
pattern1.py > ...  
1   for row in range(1,6):  
2       for col in range(1,row+1):  
3           print("*",end="\t")  
4       print()  
5
```

### OUTPUT

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  
Python + - [ ] [ ] ... ^  
PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/Desktop/task/pattern1.py  
*  
*   *  
*   *   *  
*   *   *   *  
*   *   *   *   *  
PS C:\Users\Admin\Desktop\task>
```

2. Write a program to print the pattern given below.

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

### PROGRAM

```
pattern2.py > ...  
1   for row in range(1,6):  
2       for col in range(1,row+1):  
3           print(col,end="\t")  
4       print()
```

## OUTPUT

```
PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/Desktop/task/pattern2.py
1
1      2
1      2      3
1      2      3      4
1      2      3      4      5
```

### 3. Write a program to print the pattern given below

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

## PROGRAM

```
pattern3.py > ...
1 num=int(input("enter row:"))
2 for row in range(1,num+1):
3     for col in range(1,row+1):
4         print("*",end="")
5     print()
6 for row in range(num-1,0,-1):
7     for col in range(1,row+1):
8         print("*",end="")
9     print()
```

## OUTPUT

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
Python + - [ ] [ ] ... ^ x

PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/Desktop/task/pattern3.py
enter row:5
*
**
***
****
*****
****
***
**
*
```

4. Write a Python program to create the multiplication table (from 1 to 10) of a number.

### PROGRAM

```
multable.py > ...
1  num=int(input("enter number:"))
2  mul=1
3  for i in range(1,11):
4      mul=i*num
5      print(f"{i} * {num} = {mul}")
```

### OUTPUT

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
Python + v [icon] [icon] ... ^ x

PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/Desktop/task/multable.py
enter number:8
1 * 8 = 8
2 * 8 = 16
3 * 8 = 24
4 * 8 = 32
5 * 8 = 40
6 * 8 = 48
7 * 8 = 56
8 * 8 = 64
9 * 8 = 72
10 * 8 = 80
```