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Section: "A"

Lab Assignment: 02

Subject: Artificial Intelligence

Program: BS-IT

Task 01: 5 Different Shapes (Using *)

1. Square shape:

Code :

```
print("* " * 5)
print("* " * 5)
print("* " * 5)
print("* " * 5)
print("* " * 5)|
```

Result:

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

2. Right triangle shape:

Code:

```
print("*")  
print("*"*2)  
print("*"*3)  
print("*"*4)  
print("*"*5)  
print("*"*6)
```

Result

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

3. Triangle shape:

Code:

```
print(" "*4,"*")  
print(" "*3,"**"*3)  
print(" "*2,"***"*5)  
print(" "*1,"****"*7)
```

Result:

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

4. Diamond shape:

Code :

```
print("  "*4,"*")  
print("  "*3,"*"*3)  
print("  "*2,"*"*5)  
print("  "*1,"*"*7)  
print("  "*2,"*"*5)  
print("  "*3,"*"*3)  
print("  "*4,"*")
```

Result:

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

5. Hollow Square Shape:

Code:

```
print("*"*7)
print("*", " "*3, "*")
print("*", " "*3, "*")
print("*"*7)
```

Result:

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