

1. Program to print different patterns.

```
In [16]: rows = int(input("Enter a number"))
for i in range(rows):
    for j in range(i+1):
        print("*",end=" ")
    print()
```

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

```
In [17]: def factorial(n):
    if n == 0:
        return 1
    else:
        return n * factorial(n-1)

num = int(input("Enter a number: "))
print("Factorial of", num, "is", factorial(num))
```

Factorial of 4 is 24

```
In [ ]:
```