

## Examples Questions for Loops:-

1) Write a program to print the tables of Given Number:

```
a = int(input("Enter the Table Number:"))
for i in range(1, 11, 1):
    print(f"{a} x {i} = {a*i}")
```

O/p:

Table  
Enter the Number = 3

$$3 \times 1 = 3$$

$$3 \times 2 = 6$$

⋮

$$3 \times 10 = 30$$

2) Factorial Concept.

```
a = int(input("Enter the number:"))
```

```
fact = 1
```

```
for i in range(1, a+1):
```

```
    fact = fact * i
```

```
print(f"factorial of {a} is {fact}")
```

O/p

Enter the Number: 5

factorial of 5 Given No is 1

"

2

"

6

"

24

"

120

(Using math)

(or)

import math

```
num = int(input("Enter the number:"))
```

```
print(f"Factorial of {num} is {math.factorial(num)}")
```

O/p:

Enter the number : 5 (in)

factorial of 5 is 120

Different types of print in python

1) Basic print:

Syn:- `print (v1, v2, ..., sep = " ", end = "\n")`

Eg: `print ("Hello", "World")` // Hello World

2) Using Sep (Separator)

Controls what comes between printed values

Eg:- `print ("Hello", "World", sep = "-")`  
// Hello-World

3) Using end:

controls what happens after printing

Eg: `print ("Hello", end = " ")`  
`print ("World")` // Hello World

`for i in range (5):`  
`print (i, end = ", ")` // 0, 1, 2, 3, 4

4) Escape characters:

Special characters to format Output

`\n` → New line

`\t` → Tab space

`\\` → Back slash

Eg:- `print ("Hello \n World")` // Hello  
World  
`print ("Hello \t World")` // Hello World



## 5. formatted strings (f-strings)

Best way to combine text with Variables

Ex:

name = "Alice"

age = 22

print(f" My name is {name} and I am {age} years old ")

o/p: My name is Alice and I am 22 years old

## 6. Using format()

Another way to format output

print(" My name is {} and I am {} years old", format("Bob", 25))

o/p:- My name is Bob and I am 25 years old