

## Python Programming - 2301CS404

Lab - 3

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## for and while loop

01) WAP to print 1 to 10.

```
In [2]: for i in range(1,11):
    print(i)

1
2
3
4
5
6
7
8
9
10
```

### 02) WAP to print 1 to n.

```
In [4]: n = int(input("Enter range number"))
for i in range(1,n+1):
    print(i)
```

### 03) WAP to print odd numbers between 1 to n.

# 04) WAP to print numbers between two given numbers which is divisible by 2 but not divisible by 3.

### 05) WAP to print sum of 1 to n numbers.

### 06) WAP to print sum of series 1 + 4 + 9 + 16 + 25 + 36 + ...n.

```
In [15]: n = int(input("Enter the n1"))
ans = 0
for n in range(1,n+1):
    ans += n*n
```

```
print(ans)
```

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### 07) WAP to print sum of series $1 - 2 + 3 - 4 + 5 - 6 + 7 \dots n$ .

### 08) WAP to print multiplication table of given number.

### 09) WAP to find factorial of the given number.

```
In [23]: n = int(input("Enter the n1"))
    ans = 1
    for i in range(n,0,-1):
        ans *= i
    print(ans)
```

120

not

### 10) WAP to find factors of the given number.

### 11) WAP to find whether the given number is prime or not.

### 12) WAP to print sum of digits of given number.

# 13) WAP to check whether the given number is palindrome or not

### 14) WAP to print GCD of given two numbers.

```
In [42]: n1 = int(input("Enter n1"))
    n2 = int(input("Enter n2"))
    ans = 0
    for i in range(1,(n1 if n1>n2 else n2),1):
        if n1%i==0 and n2%i==0:
            ans = i
    print(ans)
```

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