# DAY – 09

**September 12**

1.Write a program to print tables of given number

SAMPLE OUTPUT:

x*1=y

x*2=y

.

.

.

x*10=y

x = int(input( ))


CODE:

```
for i in range(1,11,1):

    print(f"{x} * {i} = {x*i}")
```


OUTPUT:

6

6 * 1 = 6

6 * 2 = 12

6 * 3 = 18

6 * 4 = 24

6 * 5 = 30

6 * 6 = 36

6 * 7 = 42

6 * 8 = 48

6 * 9 = 54

6 * 10 = 60

2.Write a program to print factorial of a given number

SAMPLE OUTPUT: 5

5*4*3*2*1 = 120

CODE:

```
x = int(input( ))
fact = 1
for i in range(x,0,-1):
     fact = fact*i
print(fact)
```

OUTPUT:

5

120

3.Write a program to calculate the sum of first 5 numbers  from 1 to 5

CODE:

```
sum = 0
```

```python
for i in range(1,6,1):
    sum = sum+i
print(sum)
```

OUTPUT:

15


4.Write a program to calculate sum of values of a given range.

CODE:

```python
start_num = int(input())
end_num = int(input())
sum = 0
for i in range(start_num,end_num+1,1):
    sum = sum + i
print(sum)
```

OUTPUT:

1

5

15


5.Write a program to count number of odd numbers from 1 to 30.

CODE:

```python
count = 0
```

```python
for i in range(1,31,1):
    if(i%2 != 0):
        count = count+1
    else:
        count = count
print(count)
```

OUTPUT:

15


ANOTHER METHOD:

```python
count = 0
for i in range(1,31,2):
    count = count + 1
print(count)
```

OUTPUT:

15

6.Write a program to count total number of values,num of even,num of odd within a given range.

CODE:

```python
start_num = int(input())
end_num = int(input())
count = 0
even = 0
```

```python
odd = 0
for i in range(start_num,end_num+1,1):
    count = count + 1
    if(i%2 == 0):
        even = even + 1
    else:
        odd = odd + 1
print(f"total number of values: {count}\nnum of even : {even}\nnum of odd : {odd}")
```

OUTPUT:

1

10

total number of values: 10

num of even : 5

num of odd : 5