

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
```

```
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:

```
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:

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

```
        count = count+1
else:
    count = count
print(count)
```

OUTPUT:

15

ANOTHER METHOD:

```
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:

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

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