

ASSIGNMENT QUESTIONS

1. Print Numbers From 10-30 Using For Loop

Print numbers from 10–30 using for loop

```
In [2]: for i in range(10, 31):  
        print(i, end=" ")
```

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

2. Print Numbers 0,2,4,6,8,10 Using For Loop

Print numbers 0,2,4,6,8,10 using for loop

```
In [3]: for i in range(0, 11, 2):  
        print(i, end=" ")
```

0 2 4 6 8 10

3. Print Series 50, 45, 40,,0 using for Loop

Print series 50,45,40,...,0 using for loop

```
In [5]: for i in range(50, -1, -5):  
        print(i, end=" ")
```

50 45 40 35 30 25 20 15 10 5 0

4. Print First 5 Natural Even Numbers and squares

Print first 5 natural even numbers and their squares

```
In [6]: for i in range(2, 11, 2):  
        print(i, "Square:", i*i)
```

```
2 Square: 4  
4 Square: 16  
6 Square: 36  
8 Square: 64  
10 Square: 100
```

5. Print table Using for Loop

Print table using for loop (accept table number from user)

```
In [7]: n = int(input("Enter table number: "))  
        for i in range(1, 11):  
            print(n, "x", i, "=", n*i)
```

```
Enter table number: 12  
12 x 1 = 12  
12 x 2 = 24  
12 x 3 = 36  
12 x 4 = 48  
12 x 5 = 60  
12 x 6 = 72  
12 x 7 = 84  
12 x 8 = 96  
12 x 9 = 108  
12 x 10 = 120
```

6. Print Sum of First 5 Odd Natural Numbers

Print sum of first 5 odd natural numbers

```
In [9]: sum = 0
        for i in range(1, 10, 2):
            sum += i
        print("Sum of first 5 odd numbers:", sum)
```

Sum of first 5 odd numbers: 25

7. Factorial Numbers

Print factorial of a number using for loop

```
In [10]: n = int(input("Enter number: "))
        fact = 1
        for i in range(1, n+1):
            fact *= i
        print("Factorial of", n, "is", fact)
```

Enter number: 9
Factorial of 9 is 362880

8. Marks Classification

Marks classification using logical operators

```
In [11]: marks = int(input("Enter marks: "))

        if marks >= 90:
            print("Excellent")
        elif marks >= 80:
            print("Good")
        elif marks >= 65:
            print("Better")
        elif marks < 35:
            print("Fail")
        else:
            print("Average")
```

Enter marks: 67
Better

9. Greatest Numbers

Greatest among 3 numbers using nested if

```
In [13]: a = int(input("Enter first number: "))
b = int(input("Enter second number: "))
c = int(input("Enter third number: "))

if a > b:
    if a > c:
        print("Greatest:", a)
    else:
        print("Greatest:", c)
else:
    if b > c:
        print("Greatest:", b)
    else:
        print("Greatest:", c)
```

```
Enter first number: 3
Enter second number: 6
Enter third number: 8
Greatest: 8
```

10. Smallest Numbers

Smallest among 3 numbers using logical operators

```
In [15]: a = int(input("Enter first number: "))
b = int(input("Enter second number: "))
c = int(input("Enter third number: "))

if a < b and a < c:
    print("Smallest:", a)
elif b < a and b < c:
    print("Smallest:", b)
else:
    print("Smallest:", c)
```

```
Enter first number: 7
Enter second number: 10
Enter third number: 2
Smallest: 2
```