

Practical 1 : Print Hello World.

```
print("hello world")
```

o/p:

hello world

Practical 2 : To display the sum of two numbers.

```
x = int(input('enter 1st number:'))
y = int(input('enter 2nd number:'))
print("sum :",x+y)
```

o/p:

enter 1st number: 2

enter 2nd number: 3

sum : 5

Practical 3 : Calculate area of circle.

```
r = float(input('enter radius'))
pi = 3.14
print("area :",pi*(r**2))
```

o/p:

enter radius 10

area : 314.0

Practical 4 : Accept a number from keyboard and test whether the given number is even or odd.

```
x = int(input('enter number'))
if(x%2 == 0):
    print('number is even')
else:
    print('number is odd ')
```

o/p:

enter number 6

number is even

**Practical 5** : To display numbers from **1** to **10** using while loop.

```
i=1
while(i<=10):
    print(i)
    i+=1
```

o/p:

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

**Practical 6** : To display even numbers between X and Y.

```
x = int(input('enter 1st number'))
y = int(input('enter 2nd number'))
for i in range(x,y+1):
    if(i%2 == 0):
        print(i)
```

o/p:

```
enter 1st number1
enter 2nd number10
2
4
6
8
10
```

**Practical 7** : To display the elements of a list using for loop.

```
x = int(input('enter 1st number'))
y = int(input('enter 2nd number'))
for i in range(x,y+1):
    print(i)
```

o/p:

enter 1st number 41

enter 2nd number 45

41

42

43

44

45

**Practical 8** : Draw following patterns using nested loops.

```
1)n = int(input("enter n:"))
```

```
for i in range(n):
```

```
    for j in range(i+1):
```

```
        print("*",end="")
```

```
    print()
```

o/p:

enter n:3

\*

\*\*

\*\*\*

```
2)n = int(input("enter n:"))
```

```
for i in range(0,n):
```

```
    for j in range(0,i+1):
```

```
        print(j+1,end="")
```

```
    print()
```

o/p:

enter n:3

1

12

123

```
3)n = int(input("enter n:"))
```

```
for i in range(0,n):
```

```
    for j in range(0 , n - i):
```

```
        print(" ",end="")
```

```
    for j in range(0, i + 1):
```

```
        print("* ",end="")
```

```
    print()
```

o/p:

enter n:3

```
*  
* *  
* * *
```

```
4)n = int(input("enter n:"))  
for i in range(0,n):  
    for j in range(0 , n - i):  
        print(" ",end="")  
    for j in range(0, i + 1):  
        print(i+1,end="")  
    print()
```

o/p:

enter n:3

```
1  
22  
333
```

**Practical 9 :** Write a Python function to swap two numbers.

```
x = int(input('enter 1st number'))  
y = int(input('enter 2nd number'))  
temp = x  
x = y  
y = temp  
print("swap value of x and y is:",x,"and",y)
```

o/p:

enter 1st number3

enter 2nd number4

swap value of x and y is: 4 and 3

**Practical 10 :** Write a Python function to find the greatest of 3 numbers.

```
x = int(input('enter 1st number'))  
y = int(input('enter 2nd number'))  
z = int(input('enter 3rd number'))  
if (x>=y and y>=z):  
    print('max value is:',x)  
elif (y>=x and x>=z):  
    print('max value is:',y)
```

```
else:  
    print('max value is:',z)
```

o/p:

enter 1st number3

enter 2nd number4

enter 3rd number5

max value is: 5