

```
In [22]: name = "Manvir"  
print(name)
```

Manvir

```
In [23]:  
  
print("Hello World")
```

Hello World

```
In [24]: print(15)
```

15

```
In [3]: print(15.8)
```

5.6

```
In [4]: print(False)
```

False

```
In [4]: print("Burger", "Pizza", "kulcha", "Frenchfries", sep='-')
```

Burger-Pizza-kulcha-French fries

```
In [5]: print("Punjab", 7, True)
```

Punjab 7 True

```
In [21]: print("India", "Pakistan", "Nepal", "Srilanka", sep=' ')
```

India Pakistan Nepal Srilanka

```
In [19]: print("India", "Pakistan", "Nepal", "Srilanka", sep='-')
```

India-Pakistan-Nepal-Srilanka

```
In [31]: print("Hello", end=" ")  
print("World")
```

Hello World

```
In [23]: print("Hello", end=' ')  
         print("World")
```

Hello World

```
In [15]: list=[1,2,3]  
         print(list)
```

[1, 2, 3]

```
In [2]: print(4)  
        print(1e308)
```

4  
1e+308

```
In [3]: print(4.5)  
        print(1.8e308)
```

4.5  
inf

```
In [4]: print(True)  
        print(False)
```

True  
False

```
In [7]: print(5 + 6j)
```

(5+6j)

```
In [14]: list=([1,2,3,4,5,6])  
         print(list)
```

[1, 2, 3, 4, 5, 6]

```
In [22]: tuple =((1,2,3,4,5,6))  
         print(tuple)
```

(1, 2, 3, 4, 5, 6)

```
In [38]: print({"Name": " Manvir", "Age":18, "Gender":"female"})  
         person={"Name": " Manvir", "Age":18, "Gender":"female"}  
         print(person["Name"])
```

```
{'Name': 'Manvir', 'Age': 18, 'Gender': 'female'}  
Manvir
```

```
In [43]: a = 5  
b = 4  
c = 6  
print(a)  
print(b)  
print(c)
```

```
5  
4  
6
```

```
In [44]: a,b,c=5,4,6  
print(a,b,c)
```

```
5 4 6
```

```
In [45]: _='Manvir'  
print(_)
```

```
Manvir
```

```
In [46]: false='Manvir'  
print(false)
```

```
Manvir
```

```
In [52]: a = True + 5  
b = False + 11  
print("a:", a)  
print("b:", b)
```

```
a: 6  
b: 11
```

```
In [4]: x=6  
y=3  
print(x+y)  
print(x-y)  
print(x*y)  
print(x/y)  
print(x%y)
```

```
print(x**y)
print(x//y)
```

9  
3  
18  
2.0  
0  
216  
2

```
In [7]: print(x>y)
        print(x<y)
        print(x<=y)
        print(x>=y)
        print(x==y)
```

True  
False  
False  
True  
False

```
In [19]: x=True
        y=False
        print(x or y)
        print(x and y)
        print(not y)
        print(not x)
        print(x^y)
        print(x|y)
```

True  
False  
True  
False  
True  
True

```
In [18]: a=5
        print(a)
```

5

```
In [27]: a+=5
        print(a)
```

```
In [38]: num = 1442
sum = 0

while num > 0:
    digit = num % 10
    sum = sum + digit
    num = num // 10

print("Sum of digits is:", sum)
```

Sum of digits is: 11

```
In [1]: a=10
b=25
if a>b:
    print(" largest number is:",a)
else:
    print("largest number is:",b)
```

largest number is: 25

```
In [2]: a = 12
b = 45
c = 30

if (a > b) and (a > c):
    print(a)
elif b > a and b > c:
    print(b)
else:
    print(c)
```

```
In [5]: a = int(input("Enter 1st angle: "))
b = int(input("Enter 2nd angle: "))
c = int(input("Enter 3rd angle: "))
```

```

if a + b + c == 180:
    print("Triangle can be formed")
else:
    print("Triangle can't be formed")

```

Enter 1st angle: 90

Enter 2nd angle: 0

Enter 3rd angle: 90

Triangle can be formed

```

In [6]: cp = float(input("Enter cost price: "))
        sp = float(input("Enter selling price: "))

        if sp > cp:
            print("Profit of", sp - cp)
        elif cp > sp:
            print("Loss of", cp - sp)
        else:
            print("No profit, no loss.")

```

Enter cost price: 150.0

Enter selling price: 180.0

Profit of 30.0

```

In [ ]: num = int(input("Enter a number: "))
        sum = 0
        temp = num

        while temp > 0:
            digit = temp % 10
            sum += digit ** 3
            temp //= 10

        if num == sum:
            print(num, "is an Armstrong number.")
        else:
            print(num, "is not an Armstrong number.")

```

```

In [7]: number=int(input("enter the number:"))
        i=1
        while(i<=11):

```

```
print(number*i)
i+=1
```

enter the number: 5

5  
10  
15  
20  
25  
30  
35  
40  
45  
50  
55

```
In [15]: i = 1
while i <= 10:
    print(i)
    i += 1
```

1  
2  
3  
4  
5  
6  
7  
8  
9  
10

```
In [17]: num = 5
factorial = 1

while num > 0:
    factorial *= num
    num -= 1

print("Factorial is:", factorial)
```

Factorial is: 120

```
In [19]: i = 1

while i <= 5:
    if i % 2 == 0:
```

```
        print(i, "is even")
    else:
        print(i, "is odd")
    i += 1
```

```
1 is odd
2 is even
3 is odd
4 is even
5 is odd
```

In [25]:

```
i = 1

while i <= 20:
    if i % 5 == 0:
        print(i, "is divisible by 5")
    else:
        print(i, "is not divisible by 5")
    i += 1
```

```
1 is not divisible by 5
2 is not divisible by 5
3 is not divisible by 5
4 is not divisible by 5
5 is divisible by 5
6 is not divisible by 5
7 is not divisible by 5
8 is not divisible by 5
9 is not divisible by 5
10 is divisible by 5
11 is not divisible by 5
12 is not divisible by 5
13 is not divisible by 5
14 is not divisible by 5
15 is divisible by 5
16 is not divisible by 5
17 is not divisible by 5
18 is not divisible by 5
19 is not divisible by 5
20 is divisible by 5
```

In [ ]: