

```
In [3]: n1=int(input())                                #AND LOGIC OPREATOR
        n2=int(input())
        result=n1>0 and n2>0
        if result:
            print("positive")
        else:
            print("negative")
```

```
5
4
positive
```

```
In [4]: n1=int(input())                                #OR LOGIC OPERATOR
        n2=int(input())
        result=n1>0 or n2<0
        if result:
            print("postive")
        else:
            print("negative")
```

```
-1
5
negative
```

```
In [6]: n=int(input())                                #NOT LOGIC OPERATOR
        if not n>0:
            print("negative")
        else:
            print("positive")
```

```
5
positive
```

```
In [7]: fruits=["apple","mango","orange"] #Indexing
        print(fruits[1])
```

```
mango
```

```
In [8]: fruits=["apple","mango","orange"] #Adding an item
        fruits.append("sapota")
        print(fruits)
```

```
['apple', 'mango', 'orange', 'sapota']
```

```
In [10]: fruits=["apple","mango","orange"] #Removing in list
         fruits.remove("mango")
         print(fruits)
```

```
['apple', 'orange']
```

```
In [11]: fruits=["apple","mango","orange"] #length of the list
         print(len(fruits))
```

```
3
```

```
In [16]: fruits=["apple","pomegrante","mango","orange"] #sorting or ordering
         fruits.sort()
         print(fruits)
```

```
['apple', 'mango', 'orange', 'pomegrante']
```

```
In [18]: fruits=["apple","pomegrante","mango","orange"] #descending order
         fruits.sort(reverse=True)
         print(fruits)
```

```
['pomegranate', 'orange', 'mango', 'apple']
```

```
In [19]: #random() returns a random float between two numbers
```

```
import random as rd  
print(rd.random())
```

```
0.6446423777438947
```

```
In [20]: #randint() returns a random integer
```

```
import random as rd  
print(rd.randint(4,12)) #including 4 and 12
```

```
8
```

```
In [21]: #choice() returns (string,tuple,range,list)
```

```
import random as rd  
mylist=["pavani","pradeep","sunny","nani"]  
print(mylist)  
print(rd.choice(mylist))
```

```
['pavani', 'pradeep', 'sunny', 'nani']  
pradeep
```

```
In [22]: #randrange() returns in given range
```

```
import random as rd  
print(rd.randrange(4,12,4))#we can add an step using last element
```

```
8
```

```
In [29]: #shuffle() only for list
```

```
mylist=[4,5,8,2]  
import random as rd  
print(rd.shuffle(mylist))  
print(mylist)
```

```
None
```

```
[8, 5, 2, 4]
```

```
In [31]: #choice() #returns an float-point
```

```
import random as rd  
print(rd.uniform(5,9)) #9 does not include
```

```
5.475894436246876
```

```
In [33]: print("Sowmya") #sequential execution
```

```
print("pavani")  
print("swathi")
```

```
Sowmya
```

```
pavani
```

```
swathi
```

```
In [34]: x = 10 #conditional statement
```

```
if x > 0:  
    print("x is positive")  
elif x == 0:  
    print("x is zero")  
else:  
    print("x is negative")
```

```
x is positive
```

```
In [35]: for i in range(5): #for loop
```

```
    print(i)
```

0
1
2
3
4

```
In [36]: i = 0                                #while loop
        while i < 5:
            print(i)
            i += 1
```

0
1
2
3
4

```
In [37]: for i in range(10):                #break and continue
        if i == 5:
            break
        print(i)
```

0
1
2
3
4

```
In [38]: try:                               #exception handling
        x = 1 / 0
    except ZeroDivisionError as e:
        print("Error:", e)
    else:
        print("No exception occurred.")
    finally:
        print("This will always be executed.")
```

Error: division by zero
This will always be executed.

In []: