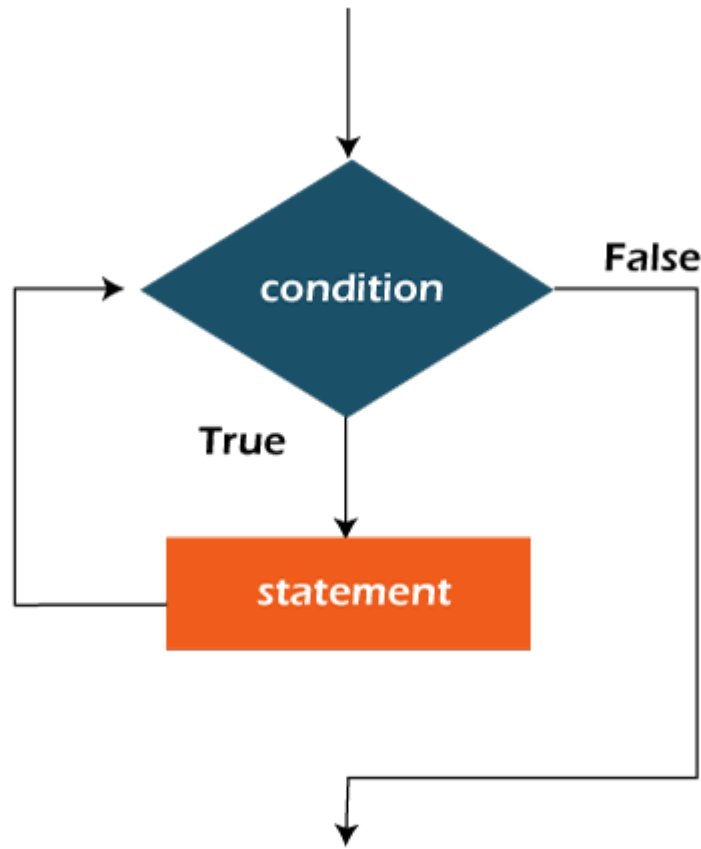


# Looping statements are used to repeat a tusk multiple times



```
In [ ]: # While Loop Syntax -
while(condition)
{ statement(s); }
```

```
In [8]: #Print 1st 10 number
i=1
while i <= 10:
    print(i)
    i = i+1
```

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

```
In [11]: #Print Table of Two
i = 1
n = 2
while i <= 10:
    print(n, 'x' , i , '=' , n*i)
    i = i+1
```

```
2 x 1 = 2
2 x 2 = 4
2 x 3 = 6
2 x 4 = 8
2 x 5 = 10
2 x 6 = 12
2 x 7 = 14
2 x 8 = 16
2 x 9 = 18
2 x 10 = 20
```

```
In [19]: #Wihle with list
#add 100 to each value od each index
l1 = [1,2,3,4,5]
i = 0
while i < len(l1):
    l1[i] = l1[i] + 100
    i = i + 1
```

```
In [17]: 11
```

```
Out[17]: [101, 102, 103, 104, 105]
```

```
In [2]: #Ask user to enter markd and calulate percentage. Ask again if he/she wants to calculate marks again or not.
#initially again is 'True' to run the while loop for at least once
again = True
while again == True:
    '''Taking marks from user'''
    name = input("Enter your name >>>")
    maths_marks = int(input("Maths marks >>>"))
    science_marks = int(input("Science marks >>>"))
    english_marks = int(input("English marks >>>"))
    comupter_marks = int(input("Computer marks >>>"))
    total = maths_marks + science_marks + english_marks + comupter_marks

    percentage = (total/400)*100
    print(name, ", your total marks is", total, "and your percentage is", percentage)

    #User has to enter y if he want to run it again
    a = input("Want to enter more? y/n >>>")
    if a!="y":
        #if user enters anything other than 'y', then 'more' is set to 'False' to stop the loop.
        again = False
```

```
Enter your name >>>Shila
Maths marks >>>98
Science marks >>>87
English marks >>>86
Computer marks >>>8
Shila , your total marks is 279 and your percentage is 69.75
Want to enter more? y/n >>>n
```

```
In [1]: #Digital dice
#importing random function to genterate random number
from random import randint
print("Give lower limit of dice")
a = int(input())
print("Give upper limit of dice")
b = int(input())
print("type q to Quit or any other key/enter to continue")
while True:
    print(">>> "+str(randint(a,b))) #randint is generating random number between a and b
    if input() == 'q': #if 'q' is entered then come out of loop
        break
```

```
Give lower limit of dice
1
Give upper limit of dice
6
type q to Quit or any other key/enter to continue
>>> 1
h
>>> 6
,
>>> 2
h
>>> 4
j
>>> 6
q
```