

# While Loop

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It is used to execute the same set of instructions again and again until the given condition become False.

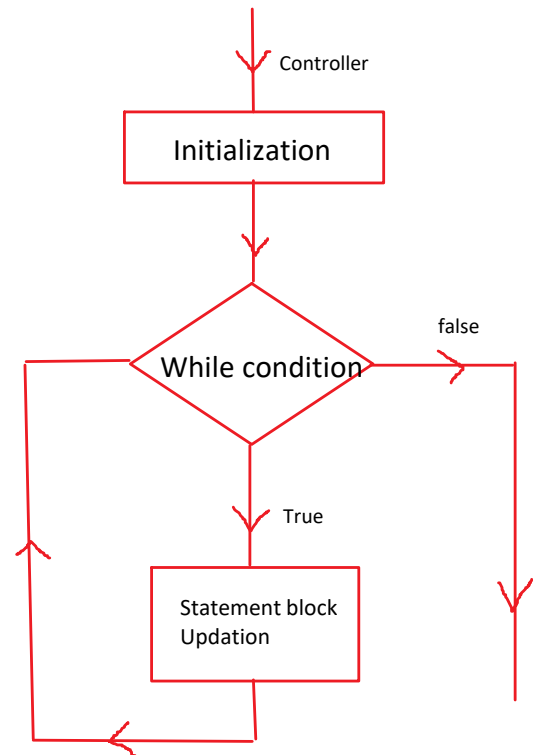
Note:- for while loop initialization and Updation is mandatory

Syntax: initialization

While Condition:



## Flow diagram



Examples:-

#1.Wap to print python for 5 times

```
i=1
while i<=5:
    print('python')
    i=i+1 #or i+=1
```

Note:if we didn't do any updationn it will print the data infinate times

#2.Wap to print n ntaural numbers

```
n=int(input('enter the value for n:'))
i=1
while i<=n:
    print(i)
    i=i+1 #i+=1
```

#Wap to print all the evn numbers between 1 to 50

```
i=2
while i<=50:
    print(i)
    i+=2
#or
i=1
while i<=50:
    if i%2==0:
        print(i)
    i+=1
```

#wap to print all the number which are multiple of 5 between 1 to n

```
n=int(input('enter the value for n:'))
i=1
while i<=n:
```

```

if i%5==0:
    print(i)
    i+=1

```

#wap to print multiplication table for n

```

'''Example:2X1=2...'''
n=int(input('enter the value for n:'))
i=1
while i<=10:
    # print(n,'X',i,'=',n*i)
    or
    print(f'{n} X {i}={n*i}')
    i+=1

```

#wap to print numbers from n to 1  
#example:n=100--->99,98,97,96,95,94,93....

```

n=int(input('enter the value for n:'))
i=n
while i>0: #or i>=1
    print(i,end=' ')
    i-=1

```

#wap to reverse the given number

```

n=int(input('enter the number:'))
rev=0
while n!=0:
    lastdigit=n%10
    rev=rev*10+lastdigit

```

7.wap to find the sum of individual digits

Example:-123--->1+2+3=6

```

n=int(input('enter the number:'))
Sum=0
while n!=0:
    Ld=n%10
    Sum=Sum+Ld
    n=n//10
print(Sum)

```

8.wap to find the factorial of a given integer

Example:5!--->5\*4\*3\*2\*1=120=====>5\*4\*3\*2\*0

```

n=int(input('enter the number:'))
Prod=1
while n>0:
    Prod=Prod*n
    n=n-1

```

```
print(Prod)
```

**Assignment:-**

- 1.Wap to extract the uppercase character from the string
- 2.Wap to print every char from the given string
- 3.Wap to extract integer from the given list
- 4.wap to find the sum of integers in a given list
- 7.wap to convert upper case to lower case and lower case to upper case in given string

