

**\While Loop :** Is a control statement which is used to execute a block of code until specified condition satisfies.

**Syntax :**

```
    initialization
    while( condition ):
        Statements
    incrementation/ Decrementation
```

**Ex:**

```
i = 0
while( i<5):
    print(i)
    i += 1
```

**Explanation :** The above code snippet shows the example usage of while loop. In the above code one variable i is initialized to 0 and in while condition we have mentioned that till i is lesser than 5. Inside the loop we are printing the value of i and incrementing i by 1 every time.

**Example: Write a python program to print fibonacci series using while loop**

```
a = 0
b = 1
count = 10

while(count > 0):
    print(a, end=" ")
    s = a+b
    a = b
    b = s
    count -= 1
```

**Example : write a python program to check given number is prime or not**

```
num = int(input("Enter number : "))
for i in range(2, num, 1):
    if num%i==0:
        print("Not Prime")
        Break
    else:
        print("Prime")
```