

What is while loop?   
 A while loop in Python is used to execute a block of code as long as condition is true.

Syntax:

while condition:

# code to execute.

ex. Print numbers from 1 to 5.

count = 1 while

count <= 5

print (count)

count += 1

output :

1  
2  
3  
4  
5

number = 1

while number <= 5 :

print (number)

number = number + 1

output :

1  
2  
3  
4  
5

## Infinite while loop:

- When the condition in the while statement never becomes false.

while True:

print ("This is an infinite loop")

## while loop with continue:

- Skips the remaining code in the current iteration and moves to the next iteration.

while True:

num 1 = int (input ("Enter num 1: "))

num 2 = int (input ("Enter num 2: "))

result = num 1 + num 2

print

## Infinite while loop:

An infinite loop occurs when the condition in the while statement never becomes false.

## while loop with false statement:

The pass statement is used when you need a placeholder for future code. It

does nothing and allows the program to run without errors.



while loop with else statement

The else statement in a while loop executes only if the loop runs completely without hitting a break statement.

Ex:-

```
num = 1 while
```

```
num <= 3;
```

```
Print (num)
```

```
num += 1 else:
```

```
Print ("loop finished Successfully!")
```

Output:

1  
2  
3

loop finished Successfully!