

For loop

1) For loop is used to iterate over a sequence of items, such as a Python tuple, list, string, or range. The loop will execute a block of statements for each item in the sequence.

2) **Syntax:**

```
for(initialization; condition; iteration){  
    //body (statement)  
}
```

3) For loop is faster than while loop.

4) **Example:**

```
n = [1, 2, 3]  
for i in n:  
    print(i)
```

5) In absence of condition for loop runs infinite times.

While loop

1) A while loop is used to repeatedly execute a block of statements while a condition is true. The loop will continue to run as long as the condition remains true.

2) **Syntax:**

```
while ( condition) {  
    statements;  
    //body of loop  
}
```

3) While loop is slower as compared to for loop.

4)**Example:**

```
i = 1  
while i < 6:  
    print(i)  
    i += 1
```

5) In absence of condition While loop Display the compile time error.