

Loops :

Loops are the control statements which executes a block of code repeatedly.

Types:

1. **For loop**
2. **Nested loop**
3. **While loop**

For Loop:

We use for loop when we already know how many iterations the loop should takes.

Syntax :

```
For iterator in range/series data structure :  
    Statements
```

For loop with range :

```
Syntax:          for i in range(start_value, end_value, step_value):  
                    Statements
```

```
Example           for i in range(1, 4):  
                    print(i)
```

```
Output =>         1 2 3
```

For loop with sequence :

```
Syntax :          for i in linear_data_structure:  
                    Statements
```

```
Example           ls = [1,2,3,4]
```

```
                For i in ls:  
                    print(i)
```

```
Output =>         1 2 3 4
```

Enumerate : It will give the position and character of the variable

```
Ex :              name = "Python"  
                  for i in enumerate(name):  
                      print(i)
```

```
Output :         (0, 'P')  
                  (1, 'y')  
                  (2, 't')  
                  (3, 'h')  
                  (4, 'o')  
                  (5, 'n')
```