Looping Statement

- ***Python provide to kings of loop for loop and while loop to represent counting loop and conditioner loop respectively.***

032 FOR LOOP

```
for element in [10,15,20,25]:
    print(element,end=' , ')
```

```
for element in [10, 15, 20, 25]:
    print(element+2, end=' , ')
```

Looping Statement

- *The range ( ) basic for loop*
- *For number based list you can specify range function to represent a list as in:*

033 THE RANGE PROGRAM FOR LOOP

```
for val in range(10):
    print(val)

for val in range(11,20):
    print(val)
```

033 THE RANGE PROGRAM FOR LOOP

```
for val in range(7):
    print(val)

for val in range(5, 12):
    print(val)
```

033 THE RANGE PROGRAM FOR LOOP

```
for val in range(5, 13, 2):
    print(val)

for val in range(10, 4):
    print(val)
```

033 THE RANGE PROGRAM FOR LOOP

```
for val in range(10, 4, -1):
    print(val)
```

034 CUBES 15 TO 20

- ***Write a program to print cubes of numbers in the range 15 to 18.***

```
for i in range(15, 21):
    print("Cube of Number", i, end=' ')
    print("is", i**3)
```

035 SQUARE ROOT ALTERNATE 1 TO 10

- ***Write a program for print square root of every alternate number in the range 1 to 18.***

```
for i in range(1, 10, 2):
    print("Square Root of", i, "is", (i**0.5))
```

Looping Statement

- ***The While Loop***
- ***A while loop is a conditioner loop that will repeat the institutions with in itself is long as a conditioner remains true (Boolean true or truth value true).The general form of python while loop is :***

036 THE WHILE LOOP

- ***Write a program that multiply 2 integers number without using the operators using repeated addition***

```
n1=int(input("Enter First Number : "))
n2=int(input("Enter Second Number : "))
product=0
count=n1
while count>0:
    count=count-1
    product=product+n2
print("The Product of", n1, "and", n2, "is", product)
```

PYTHON TEST – 1.11
LOOPING STATEMENTS