range

```
In [1]: range(6)
Out[1]: range(0, 6)
In [2]: a = range(6)
        print(a)
        range(0, 6)
In [3]: # range(number after the ending value) – starts from zero if no start \nu
        for i in range(5):
             print(i)
        print("Done")
        0
        1
        2
        3
        4
        Done
In [4]: |# range(starting value, number after the ending value)
        for i in range(1,7):
             print(i)
        print("Done")
        1
        2
        3
        4
        5
        6
        Done
In [5]: # range(starting value, number after the ending value, increment value
        for i in range(2,31,5):
             print(i)
        print("Done")
        2
        7
        12
        17
        22
        27
        Done
```

List

```
In [7]: Subjects = ['Physics','Chemistry','Maths']
         Games = ['Football','Cricket','Tennis']
In [8]: print(Subjects)
         ['Physics', 'Chemistry', 'Maths']
In [9]: #Append - adds the element at the end of the list
         Subjects.append('History')
         print(Subjects)
         ['Physics', 'Chemistry', 'Maths', 'History']
In [11]: #Insert - you can specify the index where you want to insert
         Subjects.insert(2, 'Biology')
         print(Subjects)
         ['Physics', 'Chemistry', 'Biology', 'Biology', 'Maths', 'History']
In [12]: #Extend - Add another list in existing list
         Subjects.extend(Games)
         print(Subjects)
         ['Physics', 'Chemistry', 'Biology', 'Biology', 'Maths', 'History',
         'Football', 'Cricket', 'Tennis']
         #Remove - delete an element
In [13]:
         Subjects.remove("Cricket")
         print(Subjects)
         ['Physics', 'Chemistry', 'Biology', 'Biology', 'Maths', 'History',
         'Football', 'Tennis']
In [14]: #clear - clears the entire list
```

```
In [15]:
          #pop- delete the elemt in the index value specified
          Subjects.pop(5)
          print(Subjects)
           ['Physics', 'Chemistry', 'Biology', 'Biology', 'Maths', 'Football',
In [16]: # Reverse
          Subjects.reverse()
          print(Subjects)
           ['Tennis', 'Football', 'Maths', 'Biology', 'Biology', 'Chemistry',
           'Physics']
In [17]: #Repetition
          print(Subjects*2)
          ['Tennis', 'Football', 'Maths', 'Biology', 'Biology', 'Chemistry', 'Physics', 'Tennis', 'Football', 'Maths', 'Biology', 'Biology', 'Che
          mistry', 'Physics']
          Tuple
In [18]: Fruits = ('Apple', 'Banana', 'Cherry')
          Vegetables = ('Cucumber', 'Beetroot', 'Onions', 'Potatao')
          print(Fruits)
          print(Vegetables)
          ('Apple', 'Banana', 'Cherry')
          ('Cucumber', 'Beetroot', 'Onions', 'Potatao')
In [19]: #Indexing
          print(Fruits[1])
          Banana
In [20]: #Slicing - Extracting smaller sequence
          print(Fruits[0:2])
          ('Apple', 'Banana')
In [21]: print(Fruits*4)
          ('Apple', 'Banana', 'Cherry', 'Apple', 'Banana', 'Cherry', 'Apple', 'Banana', 'Cherry', 'Apple', 'Banana', 'Cherry')
In [22]: #count - No of occurence of the element in the sequence
          Letters = ('A', 'B', 'C', 'B', 'B', 'D')
          print(Letters.count("B"))
          3
```