```python
In [10]:  #list, append
          list=["Maths", "Physics", "Chemistry", "Computer"]
          print(list)
          list.append("History")
          print(list)
          print(list[0])
          print(list[1])
          print(list[-1])
```

```
['Maths', 'Physics', 'Chemistry', 'Computer']
['Maths', 'Physics', 'Chemistry', 'Computer', 'History']
Maths
Physics
History
```

```python
In [16]:  #insert, reverse, clear
          list=["Maths", "Physics", "Chemistry", "Computer"]
          print(list)
          list.insert(3,"Geography")
          print(list)
          list.reverse()
          print(list)
          list.clear()
          print(list)
```

```
['Maths', 'Physics', 'Chemistry', 'Computer']
['Maths', 'Physics', 'Chemistry', 'Geography', 'Computer']
['Computer', 'Geography', 'Chemistry', 'Physics', 'Maths']
[]
```

```
In [19]:  #sort
          list=["Maths", "Physics", "Chemistry", "Computer"]
          print(list)
          list.insert(3,"Geography")
          print(list)
          list.sort()
          print(list)
```

```
['Maths', 'Physics', 'Chemistry', 'Computer']
['Maths', 'Physics', 'Chemistry', 'Geography', 'Computer']
['Chemistry', 'Computer', 'Geography', 'Maths', 'Physics']
```

```
In [43]:  #pop
          list=["Maths", "Physics", "Chemistry", "Computer"]
          print(list)
          sub=list.pop(2)
          print(sub)
          print(list)
```

```
['Maths', 'Physics', 'Chemistry', 'Computer']
Chemistry
['Maths', 'Physics', 'Computer']
```

```
In [41]:  #len (length)
          list=["Maths", "Physics", "Chemistry", "Computer"]
          print(len(list))
```

```
4
```

```python
In [39]:  #count
          list=["Maths", "Physics", "Chemistry", "Computer"]
          print(list)
          print(list.count("Maths"))
          list.append("Maths")
          print(list)
          print("Maths",list.count("Maths"))
```

```
['Maths', 'Physics', 'Chemistry', 'Computer']
1
['Maths', 'Physics', 'Chemistry', 'Computer', 'Maths']
Maths 2
```

```python
In [1]:  i=1
         while i<=25:
             print(i, "Arsh")
             if i==10:
                 break
             i+=1
```

```
1 Arsh
2 Arsh
3 Arsh
4 Arsh
5 Arsh
6 Arsh
7 Arsh
8 Arsh
9 Arsh
10 Arsh
```

```python
i=1
while i<=25:
    if i==10:
        i+=1
        continue
    print(i, "Arsh")
    i+=1
```

```
1 Arsh
2 Arsh
3 Arsh
4 Arsh
5 Arsh
6 Arsh
7 Arsh
8 Arsh
9 Arsh
11 Arsh
12 Arsh
13 Arsh
14 Arsh
15 Arsh
16 Arsh
17 Arsh
18 Arsh
19 Arsh
20 Arsh
21 Arsh
22 Arsh
23 Arsh
24 Arsh
25 Arsh
```

```
In [52]:  #for loop
          for i in range (1,26):
              print(i, "Arsh")
```

```
1 Arsh
2 Arsh
3 Arsh
4 Arsh
5 Arsh
6 Arsh
7 Arsh
8 Arsh
9 Arsh
10 Arsh
11 Arsh
12 Arsh
13 Arsh
14 Arsh
15 Arsh
16 Arsh
17 Arsh
18 Arsh
19 Arsh
20 Arsh
21 Arsh
22 Arsh
23 Arsh
24 Arsh
25 Arsh
```

```
In [59]: #break
         for i in range (1,26):
             print(i, "Arsh")
             if i==14:
                 print("Inside if, break is about to come.")
                 break
         print("Out of the loop.")
```

```
1 Arsh
2 Arsh
3 Arsh
4 Arsh
5 Arsh
6 Arsh
7 Arsh
8 Arsh
9 Arsh
10 Arsh
11 Arsh
12 Arsh
13 Arsh
14 Arsh
Inside if, break is about to come.
Out of the loop.
```

```python
In [63]: #continue
         for i in range (1,26):
             print(i, "Arsh")
             if i==14:
                 print("Inside if, continue is about to come.")
             continue
             print(i, "Arsh")

         print("Out of the loop.")
```

```
1 Arsh
2 Arsh
3 Arsh
4 Arsh
5 Arsh
6 Arsh
7 Arsh
8 Arsh
9 Arsh
10 Arsh
11 Arsh
12 Arsh
13 Arsh
14 Arsh
Inside if, continue is about to come.
15 Arsh
16 Arsh
17 Arsh
18 Arsh
19 Arsh
20 Arsh
21 Arsh
22 Arsh
23 Arsh
24 Arsh
25 Arsh
Out of the loop.
```

```
In [55]: sublist=["Maths", "Physics", "Chemistry", "Computer"]
         print(sublist)
         for x in sublist:
             print(x)
         print(sublist)
```

```
['Maths', 'Physics', 'Chemistry', 'Computer']
Maths
Physics
Chemistry
Computer
['Maths', 'Physics', 'Chemistry', 'Computer']
```

```
In [7]: for i in range(0, 101):
            if i%2==0:
                print(i)
```

0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
52
54
56
58
60
62
64
66
68
70
72

74
76
78
80
82
84
86
88
90
92
94
96
98
100

```
In [21]: ilist=[21, 101, 10, 34, 150, 5, 40, 80]
         largest=ilist[0]
         slargest=ilist[0]
         print(largest)
         for x in ilist:
             print(x, largest)
             if x>largest:
                 slargest=largest
                 largest=x
                 print("INSIDE IF")
                 print(x, largest)
         print(largest, slargest)
```

```
21
21 21
101 21
INSIDE IF
101 101
10 101
34 101
150 101
INSIDE IF
150 150
5 150
40 150
80 150
150 101
```

```
In [23]: i=10
         while i>0:
             print(i)
             i-=1
```

```
10
9
8
7
6
5
4
3
2
1
```