In [19]:
```
# 01
def EvenList(n):
    lst=[]
    for i in range(n):
        a=int(input("Input number: "))
        lst.append(a)
    print("Input list is: ",lst)
    print("List of Even Numbers")
    lst1=[]
    for j in lst:
        if j%2 == 0:
            lst1.append(j)
        else:
            pass
    print(lst1)
c=int(input("Enter no. of inputs: "))
EvenList(c)
```

```
Enter no. of inputs: 5
Input number: 1
Input number: 2
Input number: 3
Input number: 4
Input number: 5
Input list is:  [1, 2, 3, 4, 5]
List of Even Numbers
[2, 4]
```

In [22]:
```
# 02
def Maxx(lst):
    print("Max no. of list is: ",max(lst))
Maxx([1,2,5,4,3])
```

```
Max no. of list is:  5
```

In [71]:
```
# 03
def Maxx(lst):
    print("Min no. of list is: ",min(lst))
Maxx([1,2,5,4,3])
```

```
Min no. of list is:  1
```

In [29]:
```
# 04
def Last(lst):
    print("Last no. of list is",lst[len(lst)-1])
Last([1,2,5,4,3])
```

```
Last no. of list is 3
```

In [32]:
```
# 05
def Kelement(lst):
    k=int(input("Value of K: "))
    print(lst[k-1])
Kelement([1,2,5,4,3])
```

```
Value of K: 3
5
```

In [33]:
```
# 06
def SecondLast(lst):
    print("Last no. of second list is",lst[len(lst)-2])
SecondLast([1,2,5,4,3])
```

```
Last no. of list is 4
```

In [42]:
```
# 07
def Reverse(lst):
    a=lst
    a.reverse()
    print(a)
Reverse([1,2,5,4,3])
```

```
[3, 4, 5, 2, 1]
```

In [56]:
```
# 08
def Unique(lst):
    lst1=[]
    for i in lst:
        if i not in lst1:
            lst1.append(i)
    print(lst1)
Unique([1,2,2,3])
```

```
[1, 2, 3]
```

In [72]:
```
# 09
def UserNumbers():
    l=[]
    for i in range(10):
        a=eval(input("Enter numbers: "))
        l.append(a)
    lst=[]
    for i in l:
        if i%2 == 0:
            lst.append(i)
    print(lst)
    print("Max no. of list is: ",max(lst))
    print("Min no. of list is: ",min(lst))
    print("Last no. of list is",lst[len(lst)-1])
    print("Last no. of second list is",lst[len(lst)-2])
UserNumbers()
```

```
Enter numbers: 1
Enter numbers: 2
Enter numbers: 3
Enter numbers: 4
Enter numbers: 5
Enter numbers: 6
Enter numbers: 7
Enter numbers: 8
Enter numbers: 9
Enter numbers: 10
[2, 4, 6, 8, 10]
Max no. of list is:  10
Min no. of list is:  2
Last no. of list is 10
Last no. of second list is 8
```

In [87]:
```
# 10
def ShowExcitement(a):
    print("A quick brown fox jumps over the lazy dog\n")
    if a==4:
        return
    else:
        ShowExcitement(a+1)
ShowExcitement(0)
```

```
A quick brown fox jumps over the lazy dog

A quick brown fox jumps over the lazy dog

A quick brown fox jumps over the lazy dog

A quick brown fox jumps over the lazy dog

A quick brown fox jumps over the lazy dog
```

In [77]:
```
# 11
def Greater(a,b,c):
    if a>b:
        if a>c:
            print(a)
        else:
            print(c)
    elif b>a:
        if b>c:
            print(b)
        else:
            print(c)
Greater(8,4,6)
```

```
8
```

In [3]:
```
# 12
def divide(dividend,divisor):
    print("Quotint",dividend//divisor)
    print("Remainder",dividend%divisor)
divide(2,3)
```

```
Quotint 0
Remainder 2
```

In [83]:
```
# 13
class Person:
    def __init__(self,name,age):
        self.name=name
        self.age=age
    def Birthday(self):
        self.age+=1
        print("Incremented age is: ",self.age)
a=Person("Talha",2).Birthday()
```

```
Incremented age is:  3
```

In [163]:
```
# Bonus Task
import math
from math import *
reservoir_volume=4.445e8
reservoir_volume+=((5/100)*reservoir_volume)
print("Increase 5% is: ",(reservoir_volume))
rainfall=5e5
reservoir_volume+=rainfall
print("Add Rainfall:   ",(reservoir_volume))
reservoir_volume-=((5/100)*reservoir_volume)
print("Decrease 5% is: ",(reservoir_volume))
```

```
Increase 5% is:  466725000.0
Add Rainfall:    467225000.0
Decrease 5% is:  443863750.0
```