

```
In [5]: #Average=sum/(len("LIST NAME"))
ilist=[10, 23, 45, 60, 15]
sum=0
for x in ilist:
    sum+=x
print("Average =", sum/(len(ilist)))
```

Average = 30.6

```
In [5]: ilist=[10, 23, 45, 60, 15]
sum=0
count=0
for x in ilist:
    if x%2==0:
        sum+=x
        count+=1
average=sum/count
print(count)
print("Average =", average)
```

2

Average = 35.0

```
In [32]: count=20
i=1;
j=1
print("1 :", i)
print("2 :", j)
for x in range(3, count+1):
    print(x, ":", i+j)
    i, j=j, i+j
```

```
1 : 1
2 : 1
3 : 2
4 : 3
5 : 5
6 : 8
7 : 13
8 : 21
9 : 34
10 : 55
11 : 89
12 : 144
13 : 233
14 : 377
15 : 610
16 : 987
17 : 1597
18 : 2584
19 : 4181
20 : 6765
```

```
In [2]: limit=1000
i=1;
j=1
count=2
print("1 :", i)
print("2 :", j)
while i+j<1000:
    count+=1
    print(count, ":", i+j)
    i, j=j, i+j
```

```
1 : 1
2 : 1
3 : 2
4 : 3
5 : 5
6 : 8
7 : 13
8 : 21
9 : 34
10 : 55
11 : 89
12 : 144
13 : 233
14 : 377
15 : 610
16 : 987
```

```
In [22]: num=int(input("Enter a number: "))
for x in range (2, num):
    #x=2, x=3, x=4,...,x=num
    if num%x==0:
        print(num, "is not a prime number.")
        break
else:
    print(num, "is a prime number.")
```

```
Enter a number: 99
99 is not a prime number.
```

```
In [27]: num=int(input("Enter a number: "))
x=2
while x<num:
    if num%x==0:
        print(num, "is not a prime number.")
        break
    x+=1
else:
    print(num, "is a prime number.")
```

Enter a number: 2
2 is a prime number.

```
In [58]: xcount=5
ycount=5
for x in range(1, xcount+1):
    for y in range (1, ycount+1): #Start a for loop and run it ycount times.
        print(x, ",", y, end=" | ") #Print x and y in same line.
    print() #Move pointer to next line.
    print() #Leave a blank line.
```

```
1 , 1 | 1 , 2 | 1 , 3 | 1 , 4 | 1 , 5 |
2 , 1 | 2 , 2 | 2 , 3 | 2 , 4 | 2 , 5 |
3 , 1 | 3 , 2 | 3 , 3 | 3 , 4 | 3 , 5 |
4 , 1 | 4 , 2 | 4 , 3 | 4 , 4 | 4 , 5 |
5 , 1 | 5 , 2 | 5 , 3 | 5 , 4 | 5 , 5 |
```