Assignment-3(RID:001,Name:Madhur Jodhwani)

1.Write a program which accept N numbers from user and store it into List. Return addition of all

elements from that List.

Input :

Number of elements : 6

Input Elements : 13 5 45 7 4 56

Output : 130

```
def SumList(data):
    ans=0
    for i in range (len(data)):
        ans=ans+data[i]
    return ans

arr=[]
print("Enter number of elements in the list")
no=int(input())
i=0
while i < no:
    print("Enter value for element no:",i+1)
    arr.append(int(input()))
    i+=1
print("Sum of all elements of the list is:",SumList(arr))
```

2.Write a program which accept N numbers from user and store it into List. Return Maximum

number from that List.

Input : Number of elements : 7

Input Elements : 13 5 45 7 4 56 34

Output : 56

```
import heapq
ans=lambda data:heapq.nlargest(1,data)

def MaxElement(data):
    temp=0
    i=0
```

```
    while i < len(data):
        if temp < data[i]:
            temp=data[i]
        i=i+1
    return temp

arr=[]
print("Enter number of elements in the list")
no=int(input())
i=0
while i < no:
    print("Enter value for element no:",i+1)
    arr.append(int(input()))
    i+=1
print("Largest element in the list is:",MaxElement(arr))
print("Largest element in the list is:",ans(arr))
```

3.Write a program which accept N numbers from user and store it into List. Return Minimum number from that List.

Input : Number of elements : 4

Input Elements : 13 5 45 7

Output : 5

```
import heapq
ans=lambda data:heapq.nsmallest(1,data)

def MinElement(data):
    temp=0
    i=0
    while i < len(data):
        if temp>data[i]:
            temp=data[i]
        i=i+1
    return temp




arr=[]
print("Enter number of elements in the list")
```

```
no=int(input())
i=0
while i < no:
    print("Enter value for element no:",i+1)
    arr.append(int(input()))
    i+=1
print("Smallest element in the list is:",MinElement(arr))
print("Smallest element in the list is:",ans(arr))
```

4.Write a program which accept N numbers from user and store it into List. Accept one another number from user and return frequency of that number from List.

Input : Number of elements : 11

Input Elements : 13 5 45 7 4 56 5 34 2 5 65

Element to search : 5

Output : 3

```
def Freq(value,data):
    i=0
    fre=0
    while i < len(data):
        if data[i]==value:
            fre=fre+1
        i=i+1
    return fre

arr=[]
print("Enter number of elements in the list")
no=int(input())
i=0
while i < no:
    print("Enter value for element no:",i+1)
    arr.append(int(input()))
    i+=1
print("Enter the number whose frequency is wanted")
value=int(input())
print("Frequency of",value,"in the list is:",Freq(value,arr))
```

5.Write a program which accept N numbers from user and store it into List. Return addition of all

prime numbers from that List. Main python file accepts N numbers from user and pass each

number to ChkPrime() function which is part of our user defined module named as MarvellousNum. Name of the function from main python file should be ListPrime().

Input : Number of elements : 11

Input Elements : 13 5 45 7 4 56 10 34 2 5 8

Output : 54 (13 + 5 + 7 +2 + 5)

```
def ChkPrime(num):
    if num > 1:
        for i in range(2, num):
            if (num % i) == 0:
                return False
        else:
            return True
    else:
        return True


arr=[]
brr=[]
sum=0
print("Enter number of elements in the list")
no=int(input())
i=0
while i < no:
    print("Enter value for element no:",i+1)
    arr.append(int(input()))
    i+=1
i=0
while i < no:
    if ChkPrime(arr[i])==True:
        brr.append(arr[i])
        sum=sum+arr[i]
    i=i+1
print(sum)
```