

1. Write a Python script to create a list of first N natural numbers.

```
N=int(input("enter the range of the list"))
l1=[]
for i in range(1,N+1):
    l1.append(i)
print(l1)
```

2. Write a Python script to create a list of first N odd natural numbers.

```
N=int(input("enter the range of the list"))
l1=[]
for i in range(1,N+1):
    l1.append(2*i-1)
print(l1)
```

3. Write a Python script to create a list of first N even natural numbers.

```
N=int(input("enter the range of the list"))
l1=[]
for i in range(1,N+1):
    l1.append(2*i)
print(l1)
```

4. Write a Python script to find the greatest number in a given list of numbers.

```
list=[1,4,7,3,2,6]
print("greatest number is",max(list))
```

OR

```
n=int(input("enter the length of list"))
l1=[]
for i in range(1,n+1):
    l2=int(input())
    l1.append(l2)
print("greatest number is",max(l1))
```

5. Write a Python script to find the smallest number in a given list of numbers.

```
list=[1,4,7,3,2,6]
print("smallest number is",min(list))
```

OR

```
n=int(input("enter the length of list"))
l1=[]
for i in range(1,n+1):
    l2=int(input())
    l1.append(l2)
print("smallest number is",min(l1))
```

6. Write a Python script to calculate the sum of elements in a given list of numbers.

```
list=[1,4,7,3,2,6]
s=0
for i in list:
    s=s+i
print(s)
```

OR

```
n=int(input("enter the length of list"))
s=0
l1=[]
for i in range(1,n+1):
    l2=int(input())
    l1.append(l2)
    s=s+i
print(s)
```

7. Write a Python script to remove all non int values from a list.

```
l1=[2,3,4.5,3+5j,True]
l2=[]
for x in l1:
    if type(x)==int:
        l2.append(x)

l1==l2
print(l1)
```

8. Write a Python script to print distinct elements along with their frequencies of occurrence in the list.

```
lst=eval(input("enter the list"))
element=int(input("enter a number"))
length=len(lst)
count=0
for i in range(0,length):
    if element==lst[i]:
        count+=1
if count>0:
    print("frequency is",count)
```

9. Write a Python script to print indices of all occurrences of a given element in a given list.

```
L = [eval(x) for x in input("enter elements of the list").split(',')]
print(L)
e = eval(input("enter any element"))
i=0
while i<len(L):
    if L[i]==e:
        print(i,end=' ')
    i+=1
```

10. Write a python script to sort a list.

```
l1=[4,7,8,9,4,7,8]
l1.sort()
print(l1)
```