

1. Python program to find the smallest number in a list

```
# list of numbers
list1 = [10, 20, 4, 45, 99]

# sorting the list
list1.sort()

# printing the first element
print("Smallest element is:", *list1[:1])
```

2. Python program to find the largest number in a list

```
# list of numbers
list1 = [10, 20, 4, 45, 99]

# sorting the list
list1.sort()

# printing the last element
print("Largest element is:", list1[-1])
```

3. Python program to find the second largest number in a list

```
list1 = [10, 20, 4, 45, 99]

mx=max(list1[0],list1[1])
secondmax=min(list1[0],list1[1])
n =len(list1)
for i in range(2,n):
    if list1[i]>mx:
        secondmax=mx
        mx=list1[i]
    elif list1[i]>secondmax and \
        mx != list1[i]:
        secondmax=list1[i]

print("Second highest number is : ",\
      str(secondmax))
```

4. Python program to find N largest elements from a list

```
def Nmaxelements(list1, N):  
    final_list = []  
  
    for i in range(0, N):  
        max1 = 0  
  
        for j in range(len(list1)):  
            if list1[j] > max1:  
                max1 = list1[j];  
  
        list1.remove(max1);  
        final_list.append(max1)  
  
    print(final_list)
```

Driver code

```
list1 = [2, 6, 41, 85, 0, 3, 7, 6, 10]
```

```
N = 2
```

Calling the function

```
Nmaxelements(list1, N)
```

5. Python program to print even numbers in a list

list of numbers

```
list1 = [10, 21, 4, 45, 66, 93]
```

iterating each number in list

```
for num in list1:
```

```
    # checking condition
```

```
    if num % 2 != 0:
```

```
        print(num, end = " ")
```

6. Python program to print odd numbers in a List

```
# list of numbers
list1 = [10, 21, 4, 45, 66, 93]

# iterating each number in list
for num in list1:

    # checking condition
    if num % 2 != 0:
        print(num, end = " ")
```

7. Python program to print all even numbers in a range

```
for num in range(4,15,2):
    #here inside range function first no denotes starting, second denotes end and
    third denotes the interval
    print(num)
```

8. Python program to print all odd numbers in a range

```
start, end = 4, 19

# iterating each number in list
for num in range(start, end + 1):

    # checking condition
    if num % 2 != 0:
        print(num, end = " ")
```

9. Python program to print positive numbers in a list

```
# list of numbers
list1 = [11, -21, 0, 45, 66, -93]

# iterating each number in list
for num in list1:

    # checking condition
```

```
if num >= 0:  
    print(num, end = " ")
```

10. Python program to print negative numbers in a list

```
# list of numbers  
list1 = [11, -21, 0, 45, 66, -93]
```

```
# iterating each number in list  
for num in list1:
```

```
    # checking condition  
    if num < 0:  
        print(num, end = " ")
```

11. Python program to print all positive numbers in a range

```
start, end = -4, 19
```

```
# iterating each number in list  
for num in range(start, end + 1):
```

```
    # checking condition  
    if num >= 0:  
        print(num, end = " ")
```