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

# creating an empty list

list = []

# number of elements as input

n = int(input("Enter number of elements : "))

# iterating till the range

for i in range(0, n):

    ele = int(input())

    list.append(ele) # adding the element

print(list)

# sorting the list

list.sort()

# printing the first element

print("Smallest element is:", list[0])

**Answer:** Enter number of elements : 5

9

3

5

0

2

[9, 3, 5, 0, 2]

Smallest element is: 0

1. **Python program to find largest number in a list**

# creating an empty list

list = []

# number of elements as input

n = int(input("Enter number of elements : "))

# iterating till the range

for i in range(0, n):

    ele = int(input())

    list.append(ele) # adding the element

print(list)

# sorting the list

list.sort()

# printing the last element

print("Largest element is:", list[-1])

**Answer:** Enter number of elements : 5

3

5

2

8

1

[3, 5, 2, 8, 1]

Largest element is: 8

1. **Python program to find second largest number in a list**

# creating an empty list

list = []

# number of elements as input

n = int(input("Enter number of elements : "))

# iterating till the range

for i in range(0, n):

    ele = int(input())

    list.append(ele) # adding the element

print(list)

# sorting the list

list.sort()

# printing the last element

print("Largest element is:", list[-2])

**Answer:** Enter number of elements : 5

3

7

2

9

4

[3, 7, 2, 9, 4]

Largest element is: 7

1. **Python program to find N largest elements from a list**

# creating an empty list

list = []

# number of elements as input

n = int(input("Enter number of elements : "))

N = int(input("Enter N largest element of the list : "))

# iterating till the range

for i in range(0, n):

    ele = int(input())

    list.append(ele) # adding the element

print(list)

final\_list = []

for i in range(0, N):

  max1 = 0

  for j in range(len(list)):

      if list[j] > max1:

         max1 = list[j];

  list.remove(max1);

  final\_list.append(max1)

print("N largest elements from a list:", final\_list)

**Answer:** Enter number of elements: 5

Enter nth largest element of the list: 2

6

7

3

9

2

[6, 7, 3, 9, 2]

N largest elements from a list: [9, 7]

1. **Python program to print even numbers in a list**

# creating an empty list

list = []

# number of elements as input

n = int(input("Enter number of elements : "))

# iterating till the range

for i in range(0, n):

    ele = int(input())

    list.append(ele) # adding the element

print(list)

even\_nos = [num for num in list if num % 2 == 0]

print("Even numbers in the list: ", even\_nos)

**Answer:**

Enter number of elements: 5

1

2

8

9

7

[1, 2, 8, 9, 7]

Even numbers in the list: [2, 8]

1. **Python program to print odd numbers in a List**

# creating an empty list

list = []

# number of elements as input

n = int(input("Enter number of elements : "))

# iterating till the range

for i in range(0, n):

    ele = int(input())

    list.append(ele) # adding the element

print(list)

odd\_nos = [num for num in list if num % 2 != 0]

print("Odd numbers in the list: ", odd\_nos)

Answer: Enter number of elements : 5

2

5

3

8

1

[2, 5, 3, 8, 1]

Even numbers in the list: [5, 3, 1]

1. **Python program to print all even numbers in a range**

# Enter range as input

n = int(input("Enter the start of range: "))

N = int(input("Enter the end of range: "))

x=[i for i in range(n,N+1) if i%2==0]

print(x)

**Answer:** Enter the start of range: 2

Enter the end of range: 10

[2, 4, 6, 8, 10]

1. **Python program to print all odd numbers in a range**

# Enter range as input

n = int(input("Enter the start of range: "))

N = int(input("Enter the end of range: "))

x=[i for i in range(n,N+1) if i%2!=0]

print(x)

**Answer:** Enter the start of range: 2

Enter the end of range: 12

[3, 5, 7, 9, 11]

1. **Python program to print positive numbers in a list**

# creating an empty list

list = []

# number of elements as input

n = int(input("Enter number of elements : "))

# iterating till the range

for i in range(0, n):

    ele = int(input())

    list.append(ele) # adding the element

print(list)

# using list comprehension

pos\_nos = [num for num in list if num >= 0]

print("Positive numbers in the list: ", pos\_nos)

**Answer**: Enter number of elements: 6

-1

-8

3

6

-2

1

[-1, -8, 3, 6, -2, 1]

Positive numbers in the list: [3, 6, 1]

1. **Python program to print negative numbers in a list**

# creating an empty list

list = []

# number of elements as input

n = int(input("Enter number of elements : "))

# iterating till the range

for i in range(0, n):

    ele = int(input())

    list.append(ele) # adding the element

print(list)

# using list comprehension

Neg\_nos = [num for num in list if num <= 0]

print("Negative numbers in the list: ", Neg\_nos)

**Answer:** Enter number of elements: 7

9

-2

3

-5

1

-7

4

[9, -2, 3, -5, 1, -7, 4]

Negative numbers in the list: [-2, -5, -7]

1. **Python program to print all positive numbers in a range**

# Enter range as input

n = int(input("Enter the start of range: "))

N = int(input("Enter the End of range: "))

out=[i for i in range(n,N+1) if i>0]

  # print the all positive numbers

print(out)

**Answer:**

Enter the start of range: -10

Enter the End of range: 20

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20]