

# Find the maximum of a list of numbers

## ' Aim:

To write a program to find the maximum of a list of numbers.

## ' Equipment's required:

1. Hardware – PCs
2. Anaconda – Python 3.7 Installation / Moodle-Code Runner

## ' Algorithm:

1. Get the list of marks as input
2. Use the sort() function or max() function or use the for loop to find the maximum mark.
3. Return the maximum value

## ' Program:

i) # To find the maximum of marks using the list method sort.

```
def max_marks(marks):  
    #Write your code here  
    marks.sort()  
    large =marks[-1]  
    return(large)  
max_marks([88, 67, 77, 93, 95, 11, 67, 89, 56, 89])
```

ii) # To find the maximum marks using the list method max().

```
def max_marks(list1):  
    # write your code here  
    max1=list1[0]  
    for i in list1:  
        if i>max1:  
            max1=i  
    return max1
```

iii) # To find the maximum marks without using builtin functions.

```
def max_marks(marks):  
    a=max(marks)  
    return a
```

'**Output:**

Write a program to mark the maximum of marks using the list method **sort**.

For example:

| Test   | Result |
|--|--------|
| print(max_marks([88, 67, 77, 93, 95, 11, 67, 89, 56, 89])) | 95     |
| print(max_marks([80, 60, 70, 90, 98, 65, 50, 89, 75, 85])) | 98     |

Answer: (penalty regime: 0. %)

Reset answer

```
1 '''
2 Program to mark the maximum of marks using the list method sort
3 Developed by:B.Pavizhi
4 RegisterNumber: 21500608
5 '''
6 def max_marks(marks):
7     #Write your code here
8     marks.sort()
9     large =marks[-1]
10    return(large)
11 max_marks([88, 67, 77, 93, 95, 11, 67, 89, 56, 89])
12
```

|   | Test   | Expected | Got |   |
|---|--|----------|-----|---|
| ✓ | print(max_marks([88, 67, 77, 93, 95, 11, 67, 89, 56, 89])) | 95       | 95  | ✓ |
| ✓ | print(max_marks([80, 60, 70, 90, 98, 65, 50, 89, 75, 85])) | 98       | 98  | ✓ |

Passed all tests! ✓

Write a program to find the maximum marks using the list method max().

For example:

| Test   | Result |
|--|--------|
| print(max_marks([88, 67, 77, 93, 95, 11, 67, 89, 56, 89])) | 95     |
| print(max_marks([80, 60, 70, 90, 98, 65, 50, 89, 75, 85])) | 98     |

Answer: (penalty regime: 0. %)

Reset answer

```
1 '''
2 Program to find the maximum marks using the list method max().
3 Developed by:B.Pavizhi
4 RegisterNumber:21500608
5 '''
6 def max_marks(list1):
7     # write your code here
8     max1=list1[0]
9     for i in list1:
10         if i>max1:
11             max1=i
12     return max1
13
```

|   | Test   | Expected | Got |   |
|---|--|----------|-----|---|
| ✓ | print(max_marks([88, 67, 77, 93, 95, 11, 67, 89, 56, 89])) | 95       | 95  | ✓ |
| ✓ | print(max_marks([80, 60, 70, 90, 98, 65, 50, 89, 75, 85])) | 98       | 98  | ✓ |

Passed all tests! ✓

Write a program to find the maximum marks without using builtin functions.

For example:

| Test   | Result |
|--|--------|
| print(max_marks([88, 67, 77, 93, 95, 11, 67, 89, 56, 89])) | 95     |
| print(max_marks([80, 60, 70, 90, 98, 65, 50, 89, 75, 85])) | 98     |

Answer: (penalty regime: 0. %)

Reset answer

```
1 '''
2 Program to the maximum marks without using builtin functions.
3 Developed by: B.Pavizhi
4 RegisterNumber: 21500608
5 '''
6 def max_marks(marks):
7     a=max(marks)
8     return a
9
```

|   | Test  | Expected | Got |   |
|---|---|----------|-----|---|
| ✓ | print(max_marks([88, 67, 77, 93, 95, 11, 67, 89, 56, 89]))  | 95       | 95  | ✓ |
| ✓ | print(max_marks([80, 60, 70, 90, 98, 65, 50, 89, 75, 85]))  | 98       | 98  | ✓ |
| ✓ | print(max_marks([81, 63, 74, 92, 100, 66, 50, 89, 75, 87])) | 100      | 100 | ✓ |

Passed all tests! ✓

## ' **Result:**

Thus the program to find the maximum of given numbers from the list is written and verified using python programming.