

# 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.

```
'''  
Program to mark the maximum of marks using the list method sort  
Developed by: your name:MEIYARASI.V  
RegisterNumber: 21005984  
'''
```

```
def max_marks(marks): #Write your code here marks.sort() large=marks[-1] return large
```

## ' Output:

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

For example:

Test	Result
<code>print(max_marks([88, 67, 77, 93, 95, 11, 67, 89, 56, 89]))</code>	95
<code>print(max_marks([88, 68, 78, 98, 98, 65, 98, 89, 75, 85]))</code>	98

Answer: (penalty regime: 0.%)

Reset answer

```

1 '''
2 Program to mark the maximum of marks using the list method sort
3 Developed by: your name:MEIYARASI.V
4 RegisterNumber: 21005984
5 '''
6 def max_marks(marks):
7     #Write your code here
8     marks.sort()
9     large=marks[-1]
10    return large

```

Test	Expected	Got
✓ <code>print(max_marks([88, 67, 77, 93, 95, 11, 67, 89, 56, 89]))</code>	95	95 ✓
✓ <code>print(max_marks([88, 68, 78, 98, 98, 65, 98, 89, 75, 85]))</code>	98	98 ✓

Passed all tests! ✓

Marks for this submission: 3.00/3.00.

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

```
```Python
'''
```

Program to find the maximum marks using the list method `max()`.

Developed by: your name

RegisterNumber:

```
'''
```

```
def max_marks(marks): # write your code here a=max(marks) return a
```

Output:

Question 2  
Correct  
Mark 3.00 out of 3.00  
Flag question

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([88, 68, 78, 98, 98, 65, 58, 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: your name
4 RegisterNumber:
5 '''
6 def max_marks(marks):
7     # write your code here
8     a=max(marks)
9     return a

```

Test	Expected	Got
✓ print(max_marks([88, 67, 77, 93, 95, 11, 67, 89, 56, 89]))	95	95 ✓
✓ print(max_marks([88, 68, 78, 98, 98, 65, 58, 89, 75, 85]))	98	98 ✓

Passed all tests! ✓

Marks for this submission: 3.00/3.00.

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

```
```Python
'''
```

Program to the maximum marks without using builtin functions.

Developed by: your name

RegisterNumber:

```
'''
```

#Write your code here

```
def max_marks(list1): # write your code here max1=list1[0] for i in list1: if i>max1: max1 = i return max1
max_marks([88, 67, 77, 93, 95, 11, 67, 89, 56, 89])
```

'**Output:**

Question 3  
Correct  
Mark 4.00 out of 4.00  
Flag question

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

Test	Result
<code>print(max_marks([88, 67, 77, 93, 95, 11, 67, 89, 56, 89]))</code>	95
<code>print(max_marks([88, 68, 78, 98, 98, 65, 58, 89, 75, 85]))</code>	98

Answer: (penalty regime: 0. %)   
Reset answer

```

1 ...
2 Program to the maximum marks without using builtin functions.
3 Developed by: your name
4 RegisterNumber:
5 ...
6 Write your code here
7 def max_marks(list1):
8     # write your code here
9     max1=list1[0]
10    for i in list1:
11        if i>max1:
12            max1 = i
13    return max1
14 max_marks([88, 67, 77, 93, 95, 11, 67, 89, 56, 89])

```

Test	Expected	Got
✓ <code>print(max_marks([88, 67, 77, 93, 95, 11, 67, 89, 56, 89]))</code>	95	95 ✓
✓ <code>print(max_marks([88, 68, 78, 98, 98, 65, 58, 89, 75, 85]))</code>	98	98 ✓
✓ <code>print(max_marks([81, 63, 74, 92, 100, 66, 58, 89, 75, 87]))</code>	100	100 ✓

Passed all tests! ✓

Marks for this submission: 4.00/4.00.

## ## Sample Input and Output

![output](./img/max\_marks1.jpg)

## ## Output:

## ## Result:

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