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):
marks.sort()
large = marks[-1]
return large
```

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

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

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

```
def max_marks(list1):
max = list1[0]
for i in list1:
    if i > max:
        max = i
return max
```

Sample Input and Output:

USING LIST METHOD SORT:

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

	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! 🗸

USING LIST METHOD MAX:

Test							
print(max_marks([88, 67, 77, 93, 95, 11, 67, 89, 56, 89]))	95						

	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! 🗸

USING BUILT-IN FUNCTION:

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

		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.