

EXPERIMENT-6

TO FIND THE FIRST SORTS THE LIST AND THEN FIND THE MAXIMUM ELEMENT

PROGRAM:

The screenshot shows the Programiz Python Online Compiler interface. The code editor window contains the following Python script named `main.py`:

```
1 def process_list(nums):
2     if not nums:
3         return None
4     nums.sort()
5     return nums[-1]
6 test_cases = [
7     [],
8     [5],
9     [3, 3, 3, 3, 3]
10]
11 for nums in test_cases:
12     print(f"{process_list(nums)}")
```

The code defines a function `process_list` that takes a list of numbers as input. If the list is empty, it returns `None`. Otherwise, it sorts the list and returns the last element (the maximum). The script then iterates over three test cases: an empty list, a list with one element (5), and a list with five elements (all 3s). The output is printed using an f-string.

OUTPUT:

The output window displays the results of the code execution. It shows the word "Output" followed by the three outputs produced by the script: "None", "5", and "3". Below these, a message indicates the execution was successful.

```
None
5
3
==== Code Execution Successful ====
```