

EXERCISE-79 Finding the maximum and minimum

PROGRAM

```
def find_max_min(numbers):  
    if not numbers:  
        return None, None  
    max_num = min_num = numbers[0]  
    for num in numbers:  
        if num > max_num:  
            max_num = num  
        if num < min_num:  
            min_num = num  
    return max_num, min_num  
numbers = [3, 5, 1, 9, 2, 7]  
max_num, min_num = find_max_min(numbers)  
print("Maximum number:", max_num)  
print("Minimum number:", min_num)
```

OUTPUT;

```
Maximum number: 9  
Minimum number: 1
```

TIME COMPLEXITY $O(n)$