155. Write a Program to find both the maximum and minimum values in the array. Implement using any programming language of your choice. Execute your code and provide the maximum and minimum values found.

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Input : N= 8, a[] = \{5,7,3,4,9,12,6,2\}
        Output : Min = 2, Max = 12
Code:
def find_min_max(arr):
  if not arr:
    return None, None
  min_val = arr[0]
  max_val = arr[0]
  for num in arr:
    if num < min_val:
      min_val = num
    if num > max_val:
      max_val = num
  return min_val, max_val
N = 8
a = [5, 7, 3, 4, 9, 12, 6, 2]
min_val, max_val = find_min_max(a)
print("Min =", min_val)
print("Max =", max_val)
```

output:

PS C:\Users\karth> & C:\Users/karth/AppData/Local/Programs/Python/Python312/python.exe c:\Users/karth/OneDrive/Desktop/csa0863\_karthik/PROBLEM.py
Min = 2
Max = 12
PS C:\Users\karth>

Time complexity:

F(n)=0(n)