1. 145. Consider an array of integers sorted in ascending order: 2,4,6,8,10,12,14,18. 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, 2,4,6,8,10,12,14,18.
         Output : Min = 2, Max = 18
Code:
def find min max(arr):
  if not arr:
     return None, None
  min val = arr[0]
  max_val = arr[0]
   for num in arr[1:]:
     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>
PS C:\Users\karth/AppData/Local/Programs/Python/Python312/python.exe c:/Users/karth/OneDrive/Documents/OriginLab/problem.py
Min = 2
Max = 12
PS C:\Users\karth> []
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Time complexity: f(n) = o(n)