```
Program 81. Finding the maximum and minimum
Program:
def find_max_min(lst):
  if not lst:
    return None, None # Return None if the list is empty
  max_element = min_element = lst[0]
  for element in lst[1:]:
    if element > max_element:
      max_element = element
    if element < min_element:
      min_element = element
  return max_element, min_element
Output:
 \hbox{"C:\Program Files\Python312\python.exe" "C:\Work Space\DAA\DAA COADS.PYTHON\program 81.py"}
 Process finished with exit code 0
Time complexity:
O(n)
```