```
EXERCISE-78 Exhaustive Search
PROGRAM
def exhaustive_search_max(arr):
  if not arr:
    return None
  max_val = arr[0]
  for num in arr:
    if num > max_val:
      max_val = num
  return max_val
numbers = [5, 8, 3, 9, 2, 10]
max_num = exhaustive_search_max(numbers)
print("Maximum element:", max_num)
OUTPUT
Maximum element: 10
TIME COMPLEXITY O(n).
```