130 . Write a program FOR THE BELOW TEST CASES with least time complexity Test Cases: -

1) Input: {1, 2, 3, 4, 5} Expected Output: 5

AIM: To find the maximum element

PROGRAM:

def find_maximum(nums):
if not nums:

return None

max element = float('-inf')

for num in nums:

if num > max_element: max_element = num

return max_element

nums = [1, 2, 3, 4, 5]
print(find_maximum(nums))

OUTPUT:

TIME COMPLEXITY: O(n)