#### **Problem Statement:**

Find the Second Largest Element in an Array Write a program to find the second-largest element in an array of integers without using any sorting algorithms or built-in array functions.

**Instructions:** Traverse the array manually to find both the largest and second-largest element

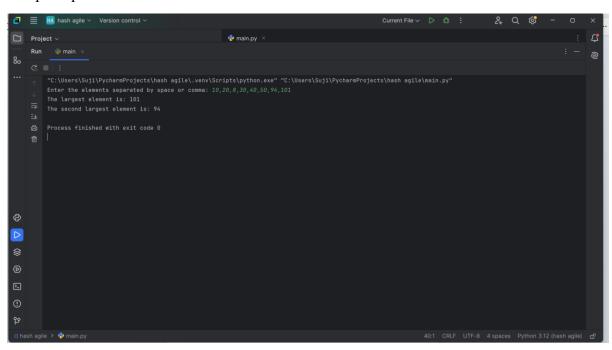
### **Program Code:**

```
def get_largest(array, n):
  largest = 0
  for i in range(1, n):
     if array[i] > array[largest]:
        largest = i
  return largest
def get second largest(array, n):
  largest = get largest(array, n)
  result = -1
  for i in range(n):
     if array[i] != array[largest]:
        if result = -1 or array[i] > array[result]:
          result = i
  return result
def main():
  elements = input("Enter the elements separated by space or comma: ")
  array = [int(x) for x in elements.replace(",", " ").split()]
  n = len(array)
  if n < 2:
```

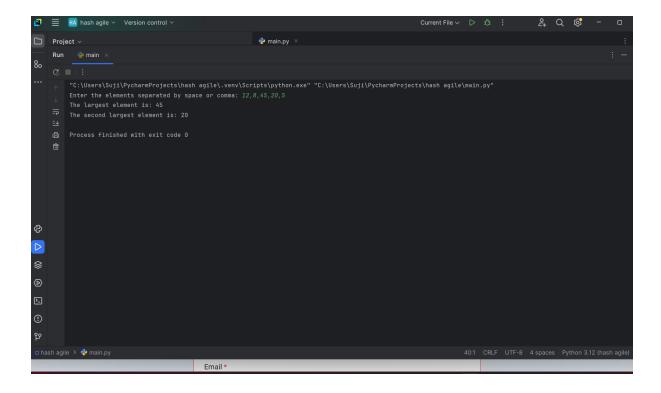
```
print("At least two elements are required to find the second largest.")
    return
largest_ind = get_largest(array, n)
second_largest_ind = get_second_largest(array, n)
print(f"The largest element is: {array[largest_ind]}")

if second_largest_ind!= -1:
    print(f"The second largest element is: {array[second_largest_ind]}")
else:
    print("There is no second largest element.")
```

# Sample input 1:



# **Sample input 2:**



# Sample input 3:

