Lab Work (31-oct-2025)

QUESTION1 -Write a program in python to create a list of 10 number given by user and display 2nd and 3rd largest value without using sort function.

```python
# Program to find 2nd and 3rd largest elements without using sort()
numbers = []
# Taking 10 numbers from user
for i in range(10):
    num = int(input(f"Enter number {i+1}: "))
    numbers.append(num)
# Find largest
first = second = third = float('-inf')
for num in numbers:
    if num > first:
        third = second
        second = first
        first = num
    elif num > second and num != first:
        third = second
        second = num
    elif num > third and num != second and num != first:
        third = num
print("2nd Largest Number:", second)
print("3rd Largest Number:", third)
```

Example:
Input
Enter number 1: 12
Enter number 2: 45
Enter number 3: 7
Enter number 4: 89
Enter number 5: 52
Enter number 6: 45
Enter number 7: 33
Enter number 8: 91
Enter number 9: 18
Enter number 10: 60
Output
2nd Largest Number: 89
3rd Largest Number: 60