

## Experiment - 3.1.1. Largest of Three Numbers

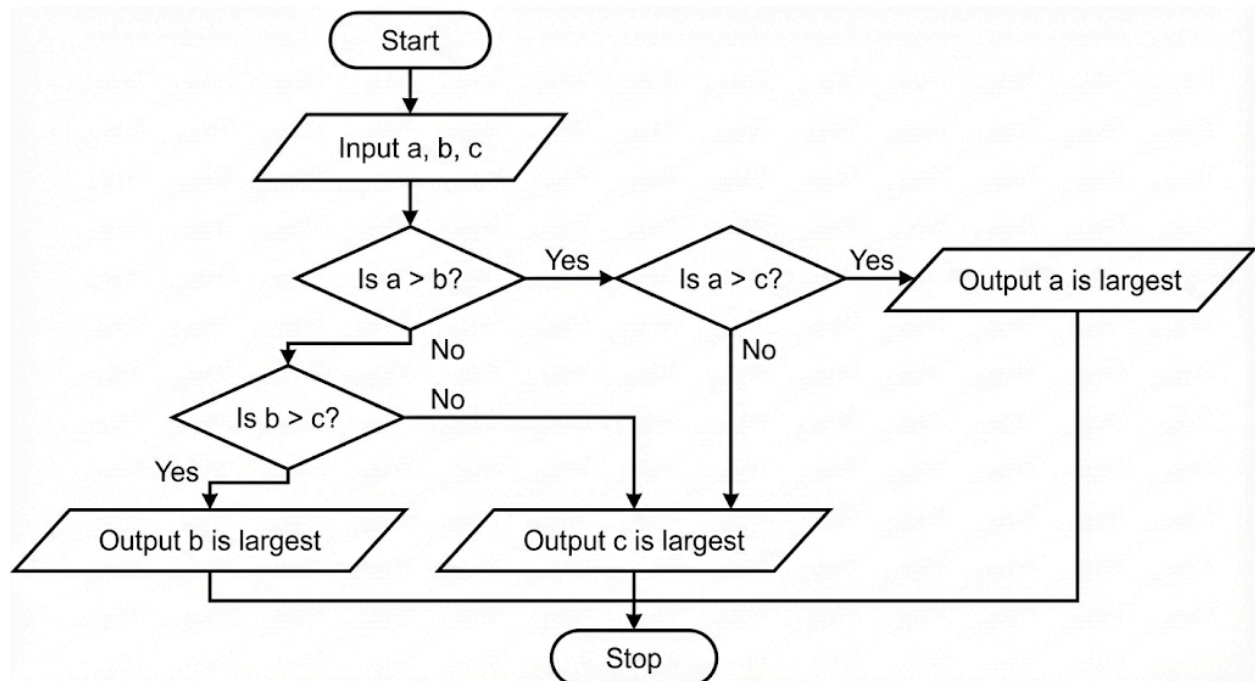
### 1. Aim

To design and implement a Python program that prompts the user to enter three integers and determines the largest among them using conditional statements (if-elif-else).

### 2. Pseudocode

1. **START**
2. **READ** three integers a, b, and c from the user (one per line).
3. **INITIALIZE** a variable largest to 0.
4. **IF**  $a \geq b$  AND  $a \geq c$ :
  - Set largest = a.
5. **ELSE IF**  $b \geq a$  AND  $b \geq c$ :
  - Set largest = b.
6. **ELSE**:
  - Set largest = c.
7. **PRINT** the value of largest.
8. **END**

### 3. Flowchart



### 4. Python Program

# Program to find the largest of three integers

# Input: Three integers, one per line  
# Output: The largest integer among the three

# Taking three integers as input

```
a = int(input(""))
```

```
b = int(input(""))
```

```
c = int(input(""))
```

# Initializing variable to store the largest value

```
largest = 0
```

# Comparative logic using logical 'and'

```
if (a >= b) and (a >= c):
```

```
    largest = a
```

```
elif (b >= a) and (b >= c):
```

```
    largest = b
```

```
else:
```

```
    largest = c
```

# Displaying the result

```
print(largest)
```

## 5. Experiment Screenshot

The screenshot displays the CODETANTRA web-based IDE interface. On the left, the problem statement for '3.1.1. Largest of Three Numbers' is visible, including input and output formats. The main editor shows a Python script that takes three integers as input and prints the largest one. The script is as follows:

```
1 a = int(input(""))
2 b = int(input(""))
3 c = int(input(""))
4
5 largest = 0
6 if (a >= b) and (a >= c):
7     largest = a
8 elif (b >= a) and (b >= c):
9     largest = b
10 else:
11     largest = c
12
13 print(largest)
```

Below the code editor, the execution results are shown. The average time is 0.009 s (8.50 ms) and the maximum time is 0.012 s (12.00 ms). The status indicates '2 out of 2 shown test case(s) passed' and '2 out of 2 hidden test case(s) passed'. A detailed view of 'Test case 1' shows the expected output as 5 and the actual output as 5.