

Aim:

Write a C program to display the greatest of three numbers using a conditional operator (ternary operator).

Input Format:

- The first three lines of input each contain one integer representing *num1*, *num2*, and *num3*, respectively.

Output Format:

- The output displays the greatest of the three entered integers.

Note: Refer to sample test cases for better understanding.

Source Code:

greatest.c

```
#include <stdio.h>

int main() {
    int num1, num2, num3, greatest;

    // Take input from user
    printf("num1: ");
    scanf("%d", &num1);

    printf("num2: ");
    scanf("%d", &num2);

    printf("num3: ");
    scanf("%d", &num3);

    // Find the greatest number using the conditional operator
    greatest = (num1 > num2)
        ?((num1 > num3)? num1: num3)
        :((num2 > num3)? num2: num3);

    // Display the greatest number
    printf("Greatest number: %d\n", greatest);

    return 0;
}
```

Execution Results - All test cases have succeeded!

Test Case - 1

User Output

num1: 8

num3: 90

Greatest number: 90

Test Case - 2

User Output

num1: 5

num2: 45

num3: 6

Greatest number: 45