

## Q3

```
Enter the first number: 10
Enter the second number: 20
```

Results:

Addition: 30.0

Subtraction: -10.0

Multiplication: 200.0

Division: 0.5

Comparisons:

Is the first number less than the second? true

Is the first number greater than the second? false

Are both numbers equal? false

```
Enter the first number: 15
Enter the second number: 15
```

Results:

Addition: 30.0

Subtraction: 0.0

Multiplication: 225.0

Division: 1.0

Comparisons:

Is the first number less than the second? false

Is the first number greater than the second? false

Are both numbers equal? true

```
Enter the first number: -5
Enter the second number: 10
```

Results:

Addition: 5.0

Subtraction: -15.0

Multiplication: -50.0

Division: -0.5

Comparisons:

Is the first number less than the second? true

Is the first number greater than the second? false

Are both numbers equal? false

```
Enter the first number: 25
Enter the second number: 0
```

Results:

Addition: 25.0

Subtraction: 25.0

Multiplication: 0.0

Division: Undefined (division by zero)

Comparisons:

Is the first number less than the second? false

Is the first number greater than the second? true

Are both numbers equal? false

```
Enter the first number: 7.25
Enter the second number: 3.75
```

Results:

Addition: 11.0

Subtraction: 3.5

Multiplication: 27.1875

Division: 1.9333333333333333

Comparisons:

Is the first number less than the second? false

Is the first number greater than the second? true

Are both numbers equal? false

# Q4

```
Enter the first number (a): 5
Enter the second number (b): 3
Enter the third number (c): 7
```

Logical Expressions:

```
(a > b && b < c): true
```

```
(a == b || b != c): true
```

Bitwise Operations:

```
a & b: 1
```

```
a | b: 7
```

```
a ^ b: 6
```

```
~a: -6
```

```
Enter the first number (a): 4
Enter the second number (b): 4
Enter the third number (c): 4
```

Logical Expressions:

```
(a > b && b < c): false
```

```
(a == b || b != c): true
```

Bitwise Operations:

```
a & b: 4
```

```
a | b: 4
```

```
a ^ b: 0
```

```
~a: -5
```

```
Enter the first number (a): -8
Enter the second number (b): 2
Enter the third number (c): -3
```

Logical Expressions:

```
(a > b && b < c): false
```

```
(a == b || b != c): true
```

Bitwise Operations:

```
a & b: 0
```

```
a | b: -6
```

```
a ^ b: -6
```

```
~a: 7
```

```
Enter the first number (a): 0
Enter the second number (b): 5
Enter the third number (c): 10
```

Logical Expressions:

```
(a > b && b < c): false
(a == b || b != c): true
```

Bitwise Operations:

```
a & b: 0
a | b: 5
a ^ b: 5
~a: -1
```

```
Enter the first number (a): 1023
Enter the second number (b): 511
Enter the third number (c): 2047
```

Logical Expressions:

```
(a > b && b < c): true
(a == b || b != c): true
```

Bitwise Operations:

```
a & b: 511
a | b: 1023
a ^ b: 512
~a: -1024
```

## Q7

```
Enter 10 integers:
Enter number 1: 8
Enter number 2: 8
Enter number 3: 8
Enter number 4: 8
Enter number 5: 8
Enter number 6: 8
Enter number 7: 8
Enter number 8: 8
Enter number 9: 8
Enter number 10: 8
```

```
Results:
Sum of all elements: 80
Largest value: 8
Smallest value: 8
```

```
Enter 10 integers:
Enter number 1: 0
Enter number 2: 0
Enter number 3: 0
Enter number 4: 0
Enter number 5: 0
Enter number 6: 0
Enter number 7: 0
Enter number 8: 0
Enter number 9: 0
Enter number 10: 0
```

```
Results:
Sum of all elements: 0
Largest value: 0
Smallest value: 0
```

```
Enter 10 integers:  
Enter number 1: 10  
Enter number 2: -5  
Enter number 3: 30  
Enter number 4: -20  
Enter number 5: 50  
Enter number 6: -15  
Enter number 7: 70  
Enter number 8: -25  
Enter number 9: 95  
Enter number 10: -35
```

```
Results:  
Sum of all elements: 155  
Largest value: 95  
Smallest value: -35
```

```
Enter 10 integers:  
Enter number 1: -10  
Enter number 2: -20  
Enter number 3: -30  
Enter number 4: -40  
Enter number 5: -50  
Enter number 6: -60  
Enter number 7: -70  
Enter number 8: -80  
Enter number 9: -90  
Enter number 10: -100
```

```
Results:  
Sum of all elements: -550  
Largest value: -10  
Smallest value: -100
```

Enter 10 integers:

Enter number 1: 1

Enter number 2: 2

Enter number 3: 3

Enter number 4: 4

Enter number 5: 5

Enter number 6: 6

Enter number 7: 7

Enter number 8: 8

Enter number 9: 9

Enter number 10: 10

Results:

Sum of all elements: 55

Largest value: 10

Smallest value: 1

## Q8

```
Enter the number of rows to print: 2
```

```
Output:
```

```
1
```

```
12
```

```
Enter the number of rows to print: 5
```

```
Output:
```

```
1
```

```
12
```

```
123
```

```
1234
```

```
12345
```

```
Enter the number of rows to print: 1
```

```
Output:
```

```
1
```

```
Enter the number of rows to print: 0
```

```
Output:
```

```
Enter the number of rows to print: -3
```

```
Output:
```