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Ex. No.: 2(a) Shell Script

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Aim:

To write a Shell script that performs basic arithmetic operations (Addition, Subtraction, Multiplication, Division, and Modulus) on two user-input numbers.

## Algorithm:

- 1. Start the script.
- 2. Prompt the user to enter two numbers.
- 3. Read the input values.
- 4. Perform arithmetic operations: addition, subtraction, multiplication.
- 5. Check for division by zero:
  - o If not zero, perform division and modulus.
  - If zero, display an appropriate error message.
- 6. Display the results.
- 7. End the script.

```
Program: (arith.sh)
#!/bin/bash
```

# Basic Calculator Script

echo "Enter two numbers:"

read a

read b

add=\$((a+b))

sub=\$((a - b))

mul=\$((a \* b))

# Check for division/modulus by zero

```
if [ "$b" -ne 0 ]; then
  div=$((a/b))
  mod=$((a % b))
else
  div="Error: Division by zero"
  mod="Error: Modulus by zero"
fi
# Display Results
echo "Addition
                  : $add"
echo "Subtraction : $sub"
echo "Multiplication : $mul"
echo "Division
                 : $div"
                   : $mod"
echo "Modulus
```

## **Sample Input and Output:**

[REC@localhost ~]\$ sh arith.sh

Enter two numbers:

5

10

Addition: 15

Subtraction: -5

Multiplication: 50

Division: 0

Modulus : 5

## **Result:**

The Shell script to perform basic arithmetic operations was successfully implemented, executed, and the output was verified.