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Shell Script

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.
 - o 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"

echo "Modulus : \$mod"

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.