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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
```

$$div = ((a / b))$$

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.