Ex. No: 2a Date: 24/1/25

Shell Script

AIM:

To write a Shell script to display a basic calculator.

PROGRAM:

```bash
#!/bin/bash

while true; do
echo "======================="
echo "   Basic Calculator"
echo "======================="
echo "1. Addition"
echo "2. Subtraction"
echo "3. Multiplication"
echo "4. Division"
echo "5. Exit"
echo -n "Choose an option (1-5): " read choice

if [[ $choice -eq 5 ]]; then
echo "Exiting Calculator. Goodbye!" exit 0
fi

echo -n "Enter first number: " read num1
echo -n "Enter second number: " read num2

case $choice in
     1) result=$((num1 + num2))
echo "Result: $num1 + $num2 = $result"
;;
```
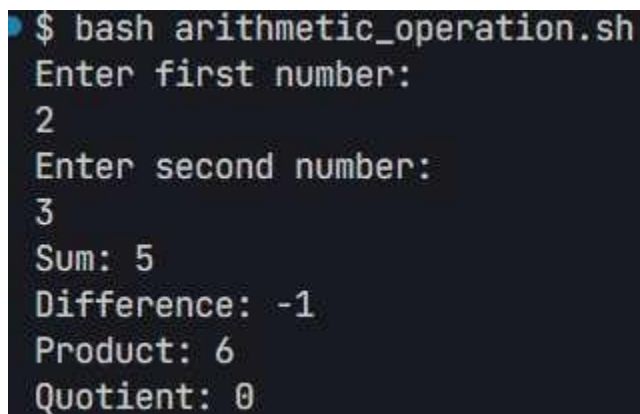
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```bash
        2) result=$((num1 - num2))

echo "Result: $num1 - $num2 = $result"

;;

        3) result=$((num1 * num2))

echo "Result: $num1 * $num2 = $result"

if [[ $num2 -eq 0 ]]; then

echo "Error: Division by zero is not allowed!" else


result=$(awk "BEGIN {print $num1 / $num2}") echo "Result: $num1 / $num2 = $result"

fi

;;

*) echo "Invalid option! Please choose between 1-5."

;;

esac

echo "   "  --------------------------

echo "" done
```

OUTPUT:


```
$ bash arithmetic_operation.sh
Enter first number:
2
Enter second number:
3
Sum: 5
Difference: -1
Product: 6
Quotient: 0
```

RESULT:

Thus, the basic calculator program was successfully implemented using shell scripting.

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