U19EC046 | OS LAB2

Solution 1:

```
#!/bin/bash
NUM1=$1
NUM2=$2
echo "the sum is $((NUM1 + NUM2)), press <enter> to exit"
read
```

Output:

```
./add.sh 4 5
the sum is 9, press <enter> to exit
```

Solution 2:

```
#!/bin/bash
a=$1
b=$2
c=$3
echo "The biggest number is $((a>b? a>c?a:c : b>c?b:c)), press <enter> to
exit"
read
```

Output:

```
./biggestOf3.sh 4 10 5
The biggest number is 10, press <enter> to exit
```

Solution 3:

```
#!/bin/bash
NUM1=$1
OP=$2
NUM2=$3

if [[ $OP = "add" ]]; then
    echo "Result: $NUM1 + $NUM2 = $((NUM1 + NUM2))"
elif [[ $OP = "sub" ]]; then
    echo "Result: $NUM1 - $NUM2 = $((NUM1 - NUM2))"
elif [[ $OP = "mul" ]]; then
    echo "Result: $NUM1 * $NUM2 = $((NUM1 * NUM2))"
elif [[ $OP = "div" ]]; then
    echo "Result: $NUM1 / $NUM2 = $((NUM1 / NUM2))"
fi
  read -p "Press enter to continue"
```

Output:

```
./cal.sh 3 add 4
Result: 3 * 4 = 12
Press enter to continue
```

Solution 4:

```
#!/bin/bash

NUM=$1
while [ $NUM -gt 0 ]
do
    echo "$NUM "
    NUM=$((NUM-1))
done
read -p "Press any key to continue..."
```

Output:

```
./decending.sh 7
7
6
5
4
```

```
3
2
1
Press any key to continue...
```

Solution 5:

```
#!/bin/bash
echo "Enter a number"
read n
sd=0
rev=0

while [ $n -gt 0 ]
do
    sd=$(( $n % 10 ))
    rev=$(( $rev * 10 + $sd ))
    n=$(( $n / 10 ))
done

echo "Reverse number of entered digit is $rev"
read -p "Press any key to continue..."
```

Output:

```
./revDigit.sh
Enter a number
2398
Reverse number of entered digit is 8932
Press any key to continue...
```

Solution 6:

```
#!/bin/bash
read -p "Enter a number: " number
sum=0

while [ $number -gt 0 ]
do
       rem=$(( $number % 10 ))
       sum=$(( $sum + $rem ))
       number=$(( $number / 10 ))
done

echo "Sum of digits = $sum"
read -p "Press any key to continue..."
```

Output:

```
./sumOfDigit.sh
Enter a number: 2938
Sum of digits = 22
Press any key to continue...
```

Solution 7:

```
#!/bin/bash
#calculator using switch case
read -p "Enter first number: " NUM1
read -p "Enter operation: " OP
read -p "Enter second number: " NUM2

# switch case on OP
case $OP in
    "+")
       echo "Result: $NUM1 + $NUM2 = $((NUM1 + NUM2))"
    ;;
    "-")
       echo "Result: $NUM1 - $NUM2 = $((NUM1 - NUM2))"
    ;;
    "*")
       echo "Result: $NUM1 * $NUM2 = $((NUM1 * NUM2))"
    ;;
    "/")
       echo "Result: $NUM1 / $NUM2 = $((NUM1 / NUM2))"
    ;;
```

```
    *)
        echo "Invalid operation"
esac

read -p "Press any key to continue..."
```

Output:

```
./switchCal.sh
Enter first number: 4
Enter operation: /
Enter second number: 2
Result: 4 / 2 = 2
Press any key to continue...
```