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...