SHELL PROGRAMMING LAB

ASSIGNMENT -5

SUBMITTED BY:

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SUBMITTED TO:

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EXPERIMENT – 5
TITLE: Working with expr command
Activities:

1. Write a shell script that defines variables like A=10 B=20 C=30 D=2 and perform the following operations:

- Add A & B and store the result in SumAB. Print SumAB.
- Multiply C & D and store the result in MulCD. Print MulCD
- Compare A & D and print the larger value.
- CompareB & C and print the lower value.

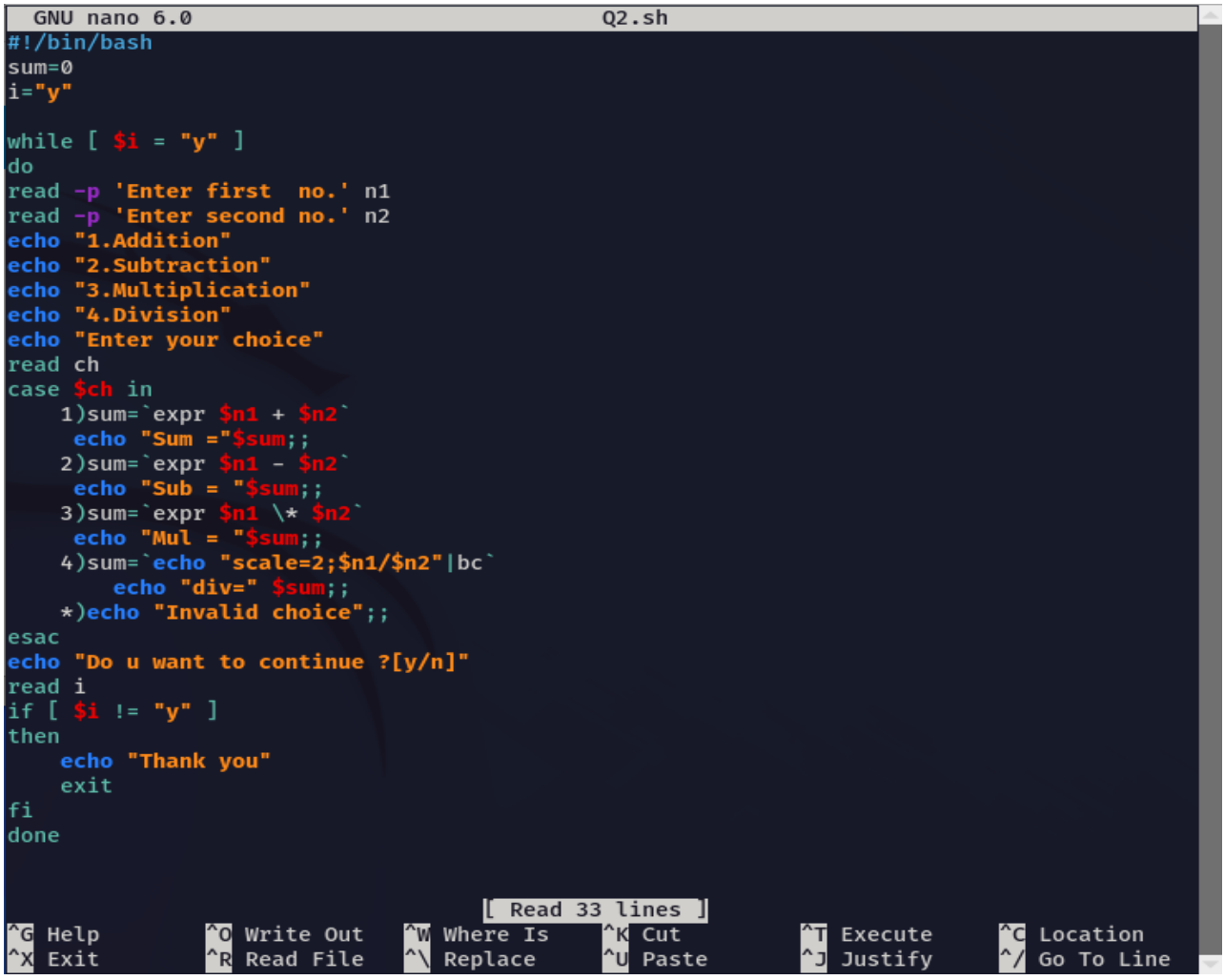
Ans.

```
  GNU nano 6.0                                  Q1A.sh
#! /bin/bash
A=10
B=20
C=30
D=2

#A
SumAB=`expr $A + $B`
echo $SumAB

#B
MulCD=`expr $C \* $D`
echo $MulCD

#C
if [ $A -gt $D ]
then
   echo 'Larger value is ' $A
else
   echo 'Larger value is ' $D
fi

#D
if [ $B -gt $C ]
then
   echo 'Lower value is ' $C
else
   echo 'Lower value is ' $B
fi
^G Help          ^O Write Out     ^W Where Is      ^K Cut           ^T Execute       ^C Location
^X Exit          ^R Read File     ^\ Replace       ^U Paste         ^J Justify       ^/ Go To Line
```

```
root@Ayush500086400:~/Desktop/lab5# nano Q1A.sh
root@Ayush500086400:~/Desktop/lab5# ./Q1A.sh
30
60
Larger value is  10
Lower value is  20
root@Ayush500086400:~/Desktop/lab5#
```

2. Create a menu driven calculator script by getting the input from the user.

Ans.



```
root@Ayush500086400:~/Desktop/lab5# ./Q2.sh
Enter first  no.10
Enter second no.2
1.Addition
2.Subtraction
3.Multiplication
4.Division
Enter your choice
4
div= 5.00
Do u want to continue ?[y/n]
y
Enter first  no.20
Enter second no.3
1.Addition
2.Subtraction
3.Multiplication
4.Division
Enter your choice
4
div= 6.66
Do u want to continue ?[y/n]
n
```

3. List down the rules for creation of variables.

Ans.

The rules of creating the variables are-:

1.The variable name has lower case letters.

2.No dollar sign “$” inserted while printing it.

3.Adding spaces after the initialization of the variable name and its value.

4.Start the variable name with a number, digit, or special symbols

4. Write a program to fetch the command line arguments.

Ans.

```
 GNU nano 6.0                                  Q3.sh
#!/bin/bash
echo 'First Command line Argument ' $1
echo 'Second one' $2
echo "Total no. of command line argument " $#
```

```
root@Ayush500086400:~/Desktop/lab5# ./Q3.sh ayush 500086400
First Command line Argument  ayush
Second one 500086400
Total no. of command line argument  2
root@Ayush500086400:~/Desktop/lab5# S
```

5. Write a program to get user input of 2 numbers , add and display.
Ans.

```
  GNU nano 6.0                                  Q4.sh
#!/bin/bash
read -p 'Enter First Number ' first
read -p 'Enter Second Number ' second
sum=`expr $first + $second`
echo "The First number is " $first " The second number is " $second " And the sum is "$sum
```

```
root@Ayush500086400:~/Desktop/lab5# ./Q4.sh
Enter First Number 2
Enter Second Number 3
The First number is  2  The second number is  3  And the sum is 5
```