Homework 4 redone midterm

Question 3. Calculator

main.bash

```bash
#!/bin/bash
#Faisal Musa 002-39-6860
echo "Welcome to Calculator"
answer="yes"
while [ $answer == "yes" ]
do
echo "Please enter an equation, or cancel to exit the program"
read equation

if [[ $equation =~ [0-9]*\+[0-9]* ]]
then
num1=`echo $equation | awk '{print $1}'`
num2=`echo $equation | awk '{print $3}'`
echo $(($num1+$num2))

elif [[ $equation =~ [0-9]*\-[0-9]* ]]
then
num1=`echo $equation | awk '{print $1}'`
num2=`echo $equation | awk '{print $3}'`
echo $(($num1-$num2))

elif [[ $equation =~ [0-9]*\*[0-9]* ]]
then
num1=`echo $equation | awk '{print $1}'`
```

input

```
Welcome to Calculator
Please enter an equation, or cancel to exit the program
cancel
This program is over
```

main.bash

```bash
elif [[ $equation =~ [0-9]*\*[0-9]* ]]
then
num1=`echo $equation | awk '{print $1}'`
num2=`echo $equation | awk '{print $3}'`
echo $(($num1*$num2))

elif [[ $equation =~ [0-9]*\/[0-9]* ]]
then
num1=`echo $equation | awk '{print $1}'`
num2=`echo $equation | awk '{print $3}'`
echo $(($num1/$num2))

elif [[ $equation =~ [0-9]*\%[0-9]* ]]
then
num1=`echo $equation | awk '{print $1}'`
num2=`echo $equation | awk '{print $3}'`
echo $(($num1%$num2))

elif [ $equation == "cancel" ]
then
answer="no"
echo "This program is over"
elif [ $equation == "clear" ]
then
clear
```

input

```
Welcome to Calculator
Please enter an equation, or cancel to exit the program
cancel
This program is over
```

Code for Calculator

```bash
#!/bin/bash

#Faisal Musa 002-39-6860

echo "Welcome to Calculator"

answer="yes"

while [ $answer == "yes" ]

do

echo "Please enter an equation, or cancel to exit the program"

read equation


if [[ $equation =~ [0-9]*\+[0-9]* ]]

then

num1=`echo $equation | awk '{print $1}'`
```

```bash
num2=`echo $equation | awk '{print $3}'`

echo $(($num1+$num2))



elif [[ $equation =~ [0-9]*\-[0-9]* ]]

then

num1=`echo $equation | awk '{print $1}'`

num2=`echo $equation | awk '{print $3}'`

echo $(($num1-$num2))



elif [[ $equation =~ [0-9]*\*[0-9]* ]]

then

num1=`echo $equation | awk '{print $1}'`

num2=`echo $equation | awk '{print $3}'`

echo $(($num1*$num2))



elif [[ $equation =~ [0-9]*\/[0-9]* ]]

then

num1=`echo $equation | awk '{print $1}'`

num2=`echo $equation | awk '{print $3}'`

echo $(($num1/$num2))



elif [[ $equation =~ [0-9]*\%[0-9]* ]]

then

num1=`echo $equation | awk '{print $1}'`

num2=`echo $equation | awk '{print $3}'`
```
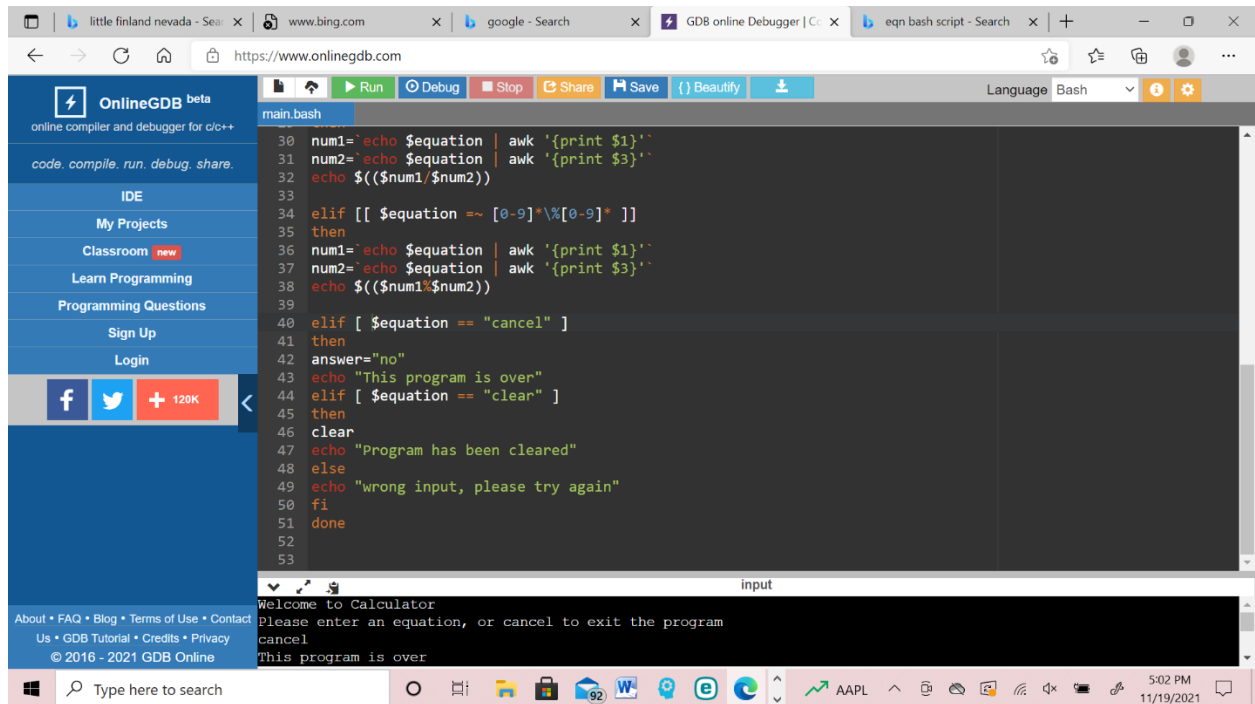
```
echo $(($num1%$num2))


elif [ $equation == "cancel" ]

then

answer="no"

echo "This program is over"

elif [ $equation == "clear" ]

then

clear

echo "Program has been cleared"

else

echo "wrong input, please try again"

fi

done
```