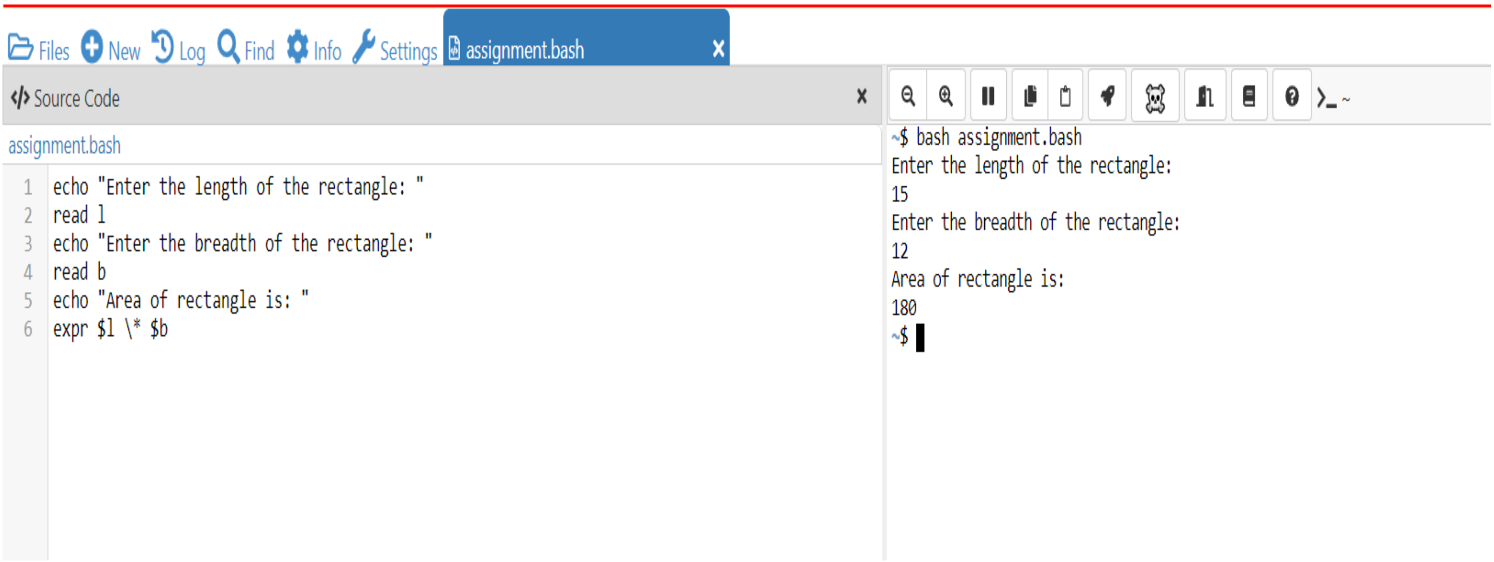
APURVA KUMAR GUPTA

1CR18CS028

5-A

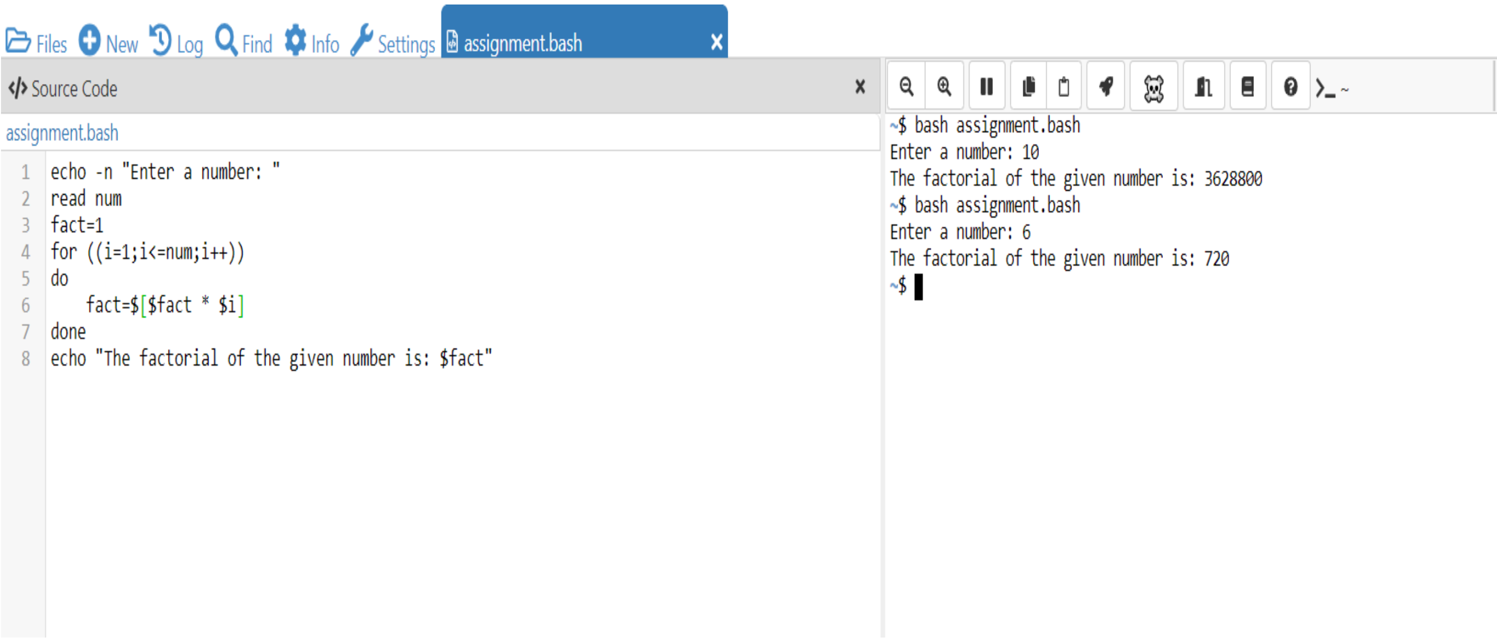
1)



```
echo "Enter the length of the rectangle: "
read l
echo "Enter the breadth of the rectangle: "
read b
echo "Area of rectangle is: "
expr $l \* $b
```

```
~$ bash assignment.bash
Enter the length of the rectangle:
15
Enter the breadth of the rectangle:
12
Area of rectangle is:
180
~$
```

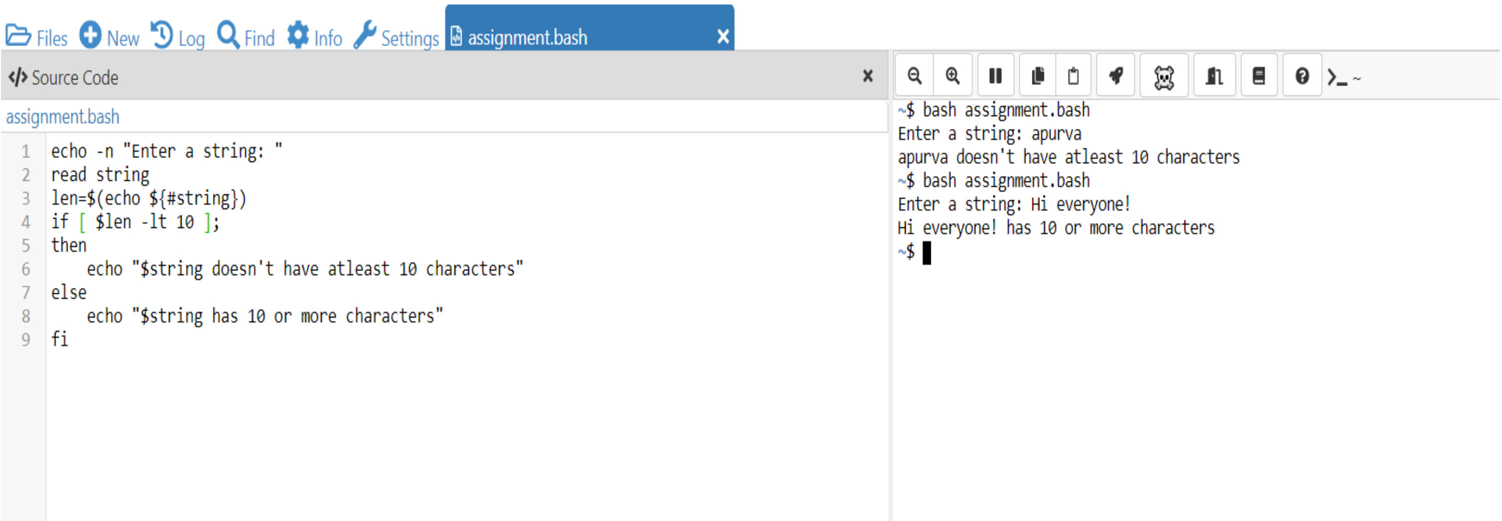
2)



```
echo -n "Enter a number: "
read num
fact=1
for ((i=1;i<=num;i++))
do
    fact=$[$fact * $i]
done
echo "The factorial of the given number is: $fact"
```

```
~$ bash assignment.bash
Enter a number: 10
The factorial of the given number is: 3628800
~$ bash assignment.bash
Enter a number: 6
The factorial of the given number is: 720
~$
```

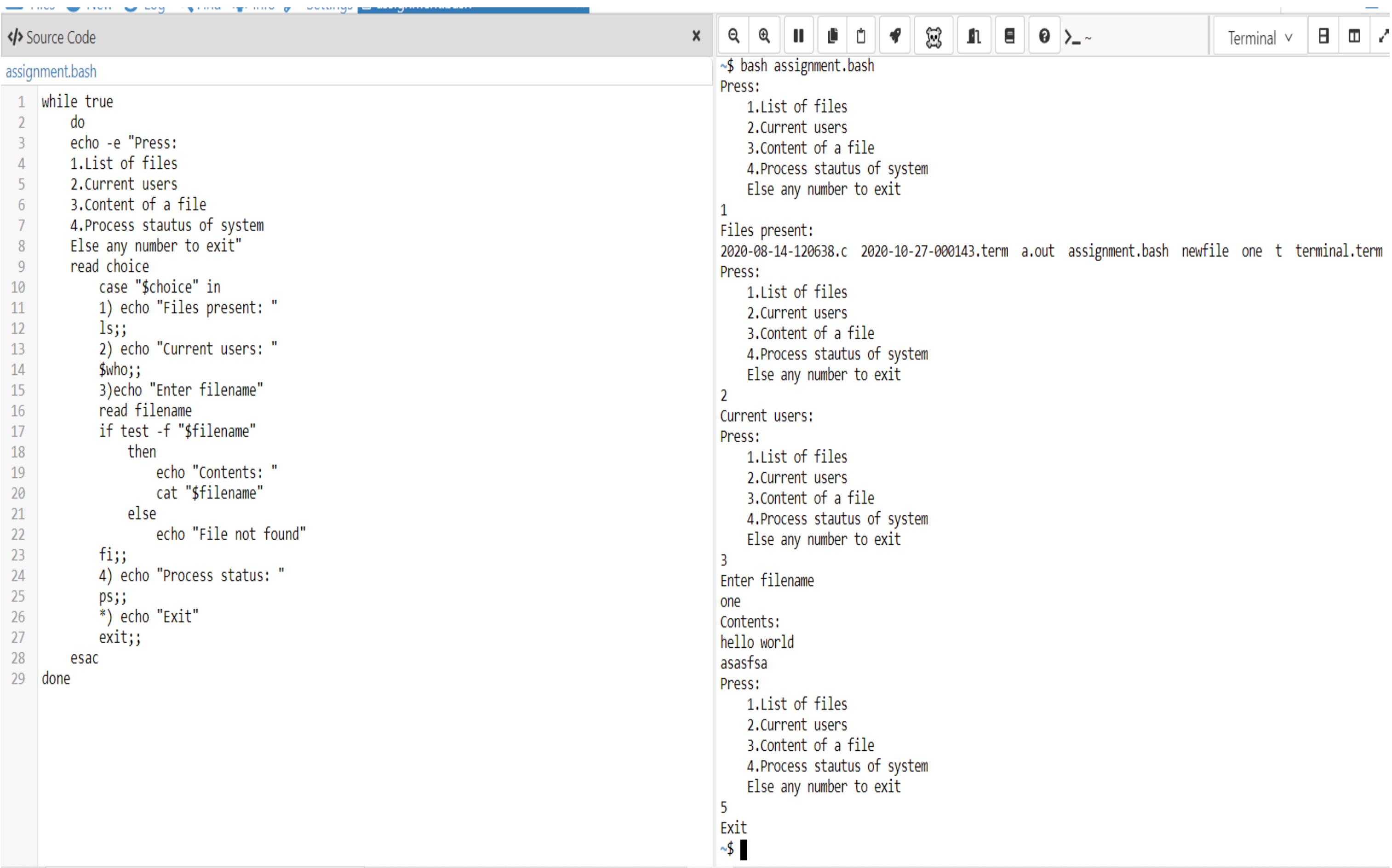
3)



```
echo -n "Enter a string: "
read string
len=$(echo ${#string})
if [ $len -lt 10 ];
then
    echo "$string doesn't have atleast 10 characters"
else
    echo "$string has 10 or more characters"
fi
```

```
~$ bash assignment.bash
Enter a string: apurva
apurva doesn't have atleast 10 characters
~$ bash assignment.bash
Enter a string: Hi everyone!
Hi everyone! has 10 or more characters
~$ 
```

4)



```
while true
    do
    echo -e "Press:
    1.List of files
    2.Current users
    3.Content of a file
    4.Process stautus of system
    Else any number to exit"
    read choice
        case "$choice" in
        1) echo "Files present: "
        ls;;
        2) echo "Current users: "
        $who;;
        3)echo "Enter filename"
        read filename
        if test -f "$filename"
            then
                echo "Contents: "
                cat "$filename"
            else
                echo "File not found"
        fi;;
        4) echo "Process status: "
        ps;;
        *) echo "Exit"
        exit;;
    esac
done
```

```
~$ bash assignment.bash
Press:
    1.List of files
    2.Current users
    3.Content of a file
    4.Process stautus of system
    Else any number to exit
1
Files present:
2020-08-14-120638.c  2020-10-27-000143.term  a.out  assignment.bash  newfile  one  t  terminal.term
Press:
    1.List of files
    2.Current users
    3.Content of a file
    4.Process stautus of system
    Else any number to exit
2
Current users:
Press:
    1.List of files
    2.Current users
    3.Content of a file
    4.Process stautus of system
    Else any number to exit
3
Enter filename
one
Contents:
hello world
asasfsa
Press:
    1.List of files
    2.Current users
    3.Content of a file
    4.Process stautus of system
    Else any number to exit
5
Exit
~$ 
```