- 1. Write a Unix Shell Script which prints the following
- a. Current home directory.
- b. Current user name.
- c. The message "No of users logged in :" with total no of current logged in users.

```
blbekgblbek-H310M-H-2-0:-/Linux_Practical/Class_5$ cat shellprogram.sh
#! bin/bash

echo "The current working directory is: "; pwd # prints the current working directory

echo "The current user: "; whoami #prints the current user

echo "Total number of users logged in is/are: "; who -w | cut -d ' ' -f 1 > temp.txt | wc -l temp.txt

bibekgblbek-H310M-H-2-0:-/Linux_Practical/Class_5$ bash shellprogram.sh

The current working directory is:
/home/bibek/Linux_Practical/Class_5
The current user:
bibek
Total number of users logged in is/are:
1 temp.txt
bibekgblbek-H310M-H-2-0:-/Linux_Practical/Class_5$ bash shellprogram.sh
The current working directory is:
/home/bibek/Linux_Practical/Class_5
The current user:
bibek
Total number of users logged in is/are:
4 temp.txt
bibekgblbek-H310M-H-2-0:-/Linux_Practical/Class_5$ who -w
bibek ? :0 2020-10-06 13:35 (:0)
chinky ? :2 2020-10-06 14:06 (:2)
sam ? :3 2020-10-06 14:06 (:3)
student ? :4 2020-10-06 14:07 (:4)
bibekgblbek-H310M-H-2-0:-/Linux_Practical/Class_5$
```

2. Write shell script to accept marks of of Unix, VB.Net,PHP and calculate the average of marks and display the message as follow:

if Average then display - is 70 or above "Distinction" is 60 <= 70 "First Class"

- is 50 <= 60 "Second Class"
- is 40 <= 50 "Third Class"
- otherwise "Fail

```
bibek@bibek-H310M-H-2-0:~/Linux Practical/Class 5$ cat report.sh
#! bin/bash
#variable declaration
unix=0
vbnet=0
php=0
total=0
avg=0
#to get i/p from users for marks in different sub
read -p "Please enter your marks in Unix: " unix read -p "Please enter your marks in VB.NET: " vbnet
read -p "Please enter your marks in PHP: " php
total=`echo Şunix+Şvbnet+Şphp | bc` # calculating total of 3 subjects
avg=`echo $total/3 | bc`
                           #calculating the average
echo "Your total is: $total"
echo "Your percentage is: $avg"
#assiging the rank as per percentage
if [ $avg -gt 70 ];
then echo "Distinction"
elif [ [ $avg -gt 60 ] && [ $avg -le 70 ] ];
then echo "First Class"
elif [ [ $avg -gt 50 ] && [ $avg -le 60 ] ];
then echo "Second Class"
elif [ [ $avg -gt 40 ] && [ $avg -le 50 ] ];
then echo "Third Class"
else
echo "Fail"
fi
bibek@bibek-H310M-H-2-0:~/Linux_Practical/Class_5$
```

```
bibek@bibek-H310M-H-2-0:~/Linux_Practical/Class_5$ bash report.sh
Please enter your marks in Unix: 78
Please enter your marks in VB.NET: 84
Please enter your marks in PHP: 94
Your total is: 256
Your percentage is: 85
Distinction
bibek@bibek-H310M-H-2-0:~/Linux Practical/Class 5$ bash report.sh
Please enter your marks in Unix: 67
Please enter your marks in VB.NET: 53
Please enter your marks in PHP: 70
Your total is: 190
Your percentage is: 63
First Class
bibek@bibek-H310M-H-2-0:~/Linux_Practical/Class_5$ bash report.sh
Please enter your marks in Unix: 69
Please enter your marks in VB.NET: 51
Please enter your marks in PHP: 60
Your total is: 180
Your percentage is: 60
Second Class
bibek@bibek-H310M-H-2-0:~/Linux_Practical/Class_5$ bash report.sh
Please enter your marks in Unix: 45
Please enter your marks in VB.NET: 51
Please enter your marks in PHP: 43
Your total is: 139
Your percentage is: 46
Third Class
bibek@bibek-H310M-H-2-0:~/Linux_Practical/Class_5$ bash report.sh
Please enter your marks in Unix: 46
Please enter your marks in VB.NET: 35
Please enter your marks in PHP: 30
Your total is: 111
Your percentage is: 37
Fail
bibek@bibek-H310M-H-2-0:~/Linux_Practical/Class_5$
```

3. Write a shell script to checks if name given is file or directory and if it is file then it should display content and if it is a directory then it should display the list.

```
|bibekjyotinath@Bibekjyotis-MacBook-Air Class_5 % cat fileordirectory.sh
#! /bin/bash
#getting i/p from the user read -p "Please enter a name to check if it is a file or directory: " name
#to check if the entered name is a file or a directory if [ -f $name ];
then echo "The entered name is a file. The contents of the file is: "; cat $name
else
echo "The entered name is a directory. Here is the contents of the directory: "; ls -1 $name
fi
|bibekjyotinath@Bibekjyotis-MacBook-Air Class_5 % bash fileordirectory.sh
Please enter a name to check if it is a file or directory: /Users/bibekjyotinath/Desktop/Class_5/temp.txt
The entered name is a file. The contents of the file is:
bibek
chinky
sam
student
|bibekjyotinath@Bibekjyotis-MacBook-Air Class_5 % bash fileordirectory.sh
Please enter a name to check if it is a file or directory: /Users/bibekjyotinath/Desktop/Class_5
The entered name is a directory. Here is the contents of the directory:
total 744
-rw-r--r--0 1 bibekjyotinath staff 350614 Oct 6 19:26 Assignment 5 1510_Bibekjyoti Nath.docx -rwxrwxrwx 1 bibekjyotinath staff 6 Oct 6 07:17 f1 85 Oct 6 11:51 filedirectory.sh.save
-rw-r--r--@ 1 bibekjyotinath staff
                                              371 Oct 6 19:44 fileordirectory.sh
-rwxrwxrwx@ 1 bibekjyotinath staff
                                              754 Oct 6 10:18 report.sh
-rwxrwxrwx@ 1 bibekjyotinath staff
-rwxrwxrwx@ 1 bibekjyotinath staff
                                              264 Oct 6 08:35 shellprogram.sh
                                             25 Oct 6 08:37 temp.txt
162 Oct 6 19:25 ~$signment 5 1510_Bibekjyoti Nath.docx
-rw-r--r--0 1 bibekjyotinath staff
bibekjyotinath@Bibekjyotis-MacBook-Air Class_5 %
```

## 4. Creat calculator using case.

```
|bibekjyotinath@Bibekjyotis-MacBook-Air Class_5 % cat casearithmatic.sh
#! /bin/bash
#variable declaration
sum=0
#taking i/p from the user
echo " Enter one no."
read n1
echo "Enter second no."
read n2
#diplaying the arithmatic operation options
echo "1.Addition"
echo "2.Subtraction"
echo "3.Multiplication"
echo "4.Division"
echo "Enter your choice"
read ch
                             #taking the choice from user
case $ch in
                             #case statment start
    1)sum=`expr $n1 + $n2`
                                 #addition operation
     echo "Sum ="$sum;;
                                   #displaying o/p
    2)sum=`expr $n1 - $n2`
                                 #subtraction operation
    echo "Sub = "$sum;;
3)sum=`expr $n1 \* $n2`
                                  #displaying o/p
                                 #multiplication operation
    echo "Mul = "$sum;;
4)sum=`expr $n1 / $n2`
                                   #displayinh o/p
                                 #divison operation
    echo "Div = "$sum;;
*)echo "Invalid choice";;
                                   #displaying o/p
                                   #if incorrect option selected will give this message
                                  #end of case
esac
bibekjyotinath@Bibekjyotis-MacBook-Air Class_5 %
```

```
[bibekjyotinath@Bibekjyotis-MacBook-Air Class_5 % bash casearithmatic.sh
Enter one no.
12
Enter second no.
12
1.Addition
2.Subtraction
3.Multiplication
4.Division
Enter your choice
1
bibekjyotinath@Bibekjyotis-MacBook-Air Class_5 % bash casearithmatic.sh
Enter one no.
Enter second no.
1.Addition
2.Subtraction
3.Multiplication
4.Division
Enter your choice
Mul = 529
|bibekjyotinath@Bibekjyotis-MacBook-Air Class_5 % bash casearithmatic.sh
Enter one no.
234
Enter second no.
212
1.Addition
2.Subtraction
3.Multiplication
4.Division
Enter your choice
Sub = 22
bibekjyotinath@Bibekjyotis-MacBook-Air Class_5 % bash casearithmatic.sh
Enter one no.
Enter second no.
1.Addition
2.Subtraction
3.Multiplication
4.Division
Enter your choice
Div = 2
```

bibekjyotinath@Bibekjyotis-MacBook-Air Class\_5 % \$

## 5. Write a shell script to accept input from student

Like Name: Roll no: Branch:

City:

## And store that record in file student.dat

bibekjyotinath@Bibekjyotis-MacBook-Air Class\_5 %

```
|bibekjyotinath@Bibekjyotis-MacBook-Air Class_5 % cat recordtofile.sh
#! /bin/bash
#getting i/p from the user
read -p "Enter your name: " name
read -p "Enter your roll number: " rollno
read -p "Enter your branch: " branch
read -p "Enter your city: " city
if [ ! -f student.dat ] #checking if the file exists
then touch student.dat; final=$name:$rollno:$branch:$city; $final >>student.dat
                                                                                            #if file doesn't exist creating the file
else final=$name:$rollno:$branch:$city
                                               #concatinating the data to a new variable
                                        #saving the data in the file
echo $final >> student.dat
|bibekjyotinath@Bibekjyotis-MacBook-Air Class_5 % bash recordtofile.sh
Enter your name: Sagar Puranik
Enter your roll number: 1515
Enter your branch: DAI
Enter your city: Pune
[bibekjyotinath@Bibekjyotis-MacBook-Air Class_5 % cat student.dat
Sagar Puranik:1515:DAI:Pune
\verb||bibekjyotinath@Bibekjyotis-MacBook-Air Class\_5 \% bash record to file.sh
Enter your name: Bibekjyoti Nath
Enter your roll number: 1510
Enter your branch: DBDA
Enter your city: Delhi
|bibekjyotinath@Bibekjyotis-MacBook-Air Class_5 % cat student.dat
Sagar Puranik:1515:DAI:Pune
Bibekjyoti Nath:1510:DBDA:Delhi
```