Code-Write Shell Programs to

• Add 2 numbers

```
echo enter a
   read a
   echo enter b
   read b
   echo "Addition of $((a)) and $((b)) is : $((a+b))"
   OUTPUT:
   student@LAB302PC34:~/Desktop/Niyati$ sh Add_nos.sh
   enter a
   5
   enter b
   Addition of 5 and 6 is: 11
   Check if a number entered is even and odd
   echo enter a
   read a
   if [$(($a % 2)) -eq 0];
   then
   echo a is even
   else
   echo a is odd
   fi
   OUTPUT:
   student@LAB302PC34:~/Desktop/Niyati$ sh Even_odd.sh
   enter a
   7
   a is odd
   student@LAB302PC34:~/Desktop/Niyati$ sh Even_odd.sh
   enter a
   a is even
• Find sum of n numbers
   a=1
   echo "Enter n"
   read n
   sum=0
   while [$a -le $n]
    sum=$((sum+a))
    a=$((a+1))
   done
   echo "Sum is $((sum))"
```

```
student@LAB302PC34:~/Desktop/Niyati$ sh Sum.sh
 Enter n
 5
 Sum is 15
Determine if a person is eligible to vote or not
 echo "Enter your age"
 read a
if [ " $a" -It 20 ];
 then
  echo "You are NOT eligible for voting"
 echo "You are eligible for voting"
 fi
 OUTPUT:
 student@LAB302PC34:~/Desktop/Niyati$ sh Vote.sh
 Enter your age
 45
 You are eligible for voting
 student@LAB302PC34:~/Desktop/Niyati$ sh Vote.sh
 Enter your age
 12
 You are NOT eligible for voting
Find Factorial of a number
 echo "Enter a number"
read n
f=1
 for((i=1;i<=n;i++))
 do
 f=$((f*i))
 done
 echo "Factorial of $((n)) is $((f))"
 OUTPUT:
 student@LAB302PC34:~/Desktop/Niyati$ bash Fact.sh
 Enter a number
 5
 Factorial of 5 is 120
 student@LAB302PC34:~/Desktop/Niyati$ bash Fact.sh
 Enter a number
 Factorial of 8 is 40320
```

OUTPUT:

• Check validity of a username and password with a function defined in the code

```
function validity
echo "Enter username"
read username
echo "Enter password"
read password
if [[ $username == "Niyati" && $password == "collegepc" ]];
then
echo "Valid User"
echo "Credentials do not match"
fi
}
validity
OUTPUT:
lab-1003@lab1003-OptiPlex-390:~/Desktop/Niyati$ bash Validity.sh
Enter username
bcc
Enter password
vcv
Credentials do not match
lab-1003@lab1003-OptiPlex-390:~/Desktop/Niyati$ bash Validity.sh
Enter username
Niyati
Enter password
collegepc
Valid User
```