Name:- Himanshu Chandola

Student ID:- 20711136

University Roll Number: - 2098005

Ques 1:- Write a Java Program which, prints the elements of a string in such a way that the first and last element of the string are printed in Upper case and the intermediate elements are printed in reverse order.(do not use inbuilt function for reverse).

```
Answer:-
import java.util.*;
class ReverseString
 public static void main(String args[])
 // Himanshu Chandola Haldwani Campus
  String original, reverse = "";
  Scanner in = new Scanner(System.in);
  System.out.println("Enter a string to reverse");
  original = in.nextLine();
  int length = original.length();
  for (int i = length - 1; i \ge 0; i--)
   reverse = reverse + original.charAt(i);
  System.out.println("Reverse of the string: " + reverse);
```

```
F:\MCA\MCA Gehu\Sem 2\Java\ques1.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
🗎 new 2 🗵 🗎 new 3 🗵 🗎 new 5 🗵 🖺 new 1 🗵 🗎 ques1.java 🗵
      import java.util.*;
                                                                  C:\Windows\Svstem32\cmd.exe
      class ReverseString
  3 ₽{
                                                                  Microsoft Windows [Version 10.0.19043.1055]
        public static void main(String args[])
                                                                  (c) Microsoft Corporation. All rights reserved.
  5
        // Himanshu Chandola Haldwani Campus
  6
                                                                  F:\MCA\MCA Gehu\Sem 2\Java>javac ques1.java
  8 🖨 {
                                                                  F:\MCA\MCA Gehu\Sem 2\Java>java ques1.java
          String original, reverse = "";
                                                                  Enter a string to reverse
 10
          Scanner in = new Scanner (System.in);
                                                                  Himanshu Chandola
                                                                  Reverse of the string: alodnahC uhsnamiH
          System.out.println("Enter a string to reverse");
 13
          original = in.nextLine();
                                                                 F:\MCA\MCA Gehu\Sem 2\Java>
 14
 15
          int length = original.length();
 16
          for (int i = length - 1 ; i >= 0 ; i--)
 18
           reverse = reverse + original.charAt(i);
 19
 20
          System.out.println("Reverse of the string: " + reverse);
 21
 22
```

## **Ques 2:-**

Write a Java Program that has a Class Which Creates Account, perform Deposite Money and Tries to WithDraw more Money Which Generates a LessBalanceException.

Create BankAccount with 500 Rs Minimum Balance, Deposit Amount, Withdraw Amount and Also Throws LessBalanceException. Class LessBalanceException returns the Statement that Says WithDraw Amount(\_Rs) is Not Valid.

Ans.

```
import java.io.*;
import java.lang.*;
class LessBalanceException extends Exception
{
LessBalanceException(double amt)
System.out.println("Withdrawing "+amt+" is invlaid");
}
class AccountDemo
static int count=0;
int accno;
double bal;
String name;
Account(double bal,String n,int accno)
 System.out.println("\nNew Account opened....!!");
 this.bal=bal;
 count++;
 System.out.println("Account Holder Name : " + n);
 name=n;
 System.out.println("Your Account Number is : "+accno);
 this.accno=accno;
 System.out.println("Total number of accounts : "+count);
}
void deposit(double amt)
 System.out.println("Availabe Balance : "+bal);
 bal=bal+amt;
```

```
System.out.println("Rs. : "+amt+" /- Created");
System.out.println("Balance : "+bal);
}
void withdraw(double amt) throws LessBalanceException
System.out.println("\nAvailabe Balance : "+bal);
 bal-=amt;
if(bal<500)
 bal+=amt;
 throw new LessBalanceException(amt);
System.out.println("Rs.: "+amt+ "/-Debited");
System.out.println("Balacne: "+bal);
void balance()
System.out.println("\n**************Customer information**************);
System.out.println("========");
System.out.println("Customer Name : "+name);
System.out.println("Account Number : "+accno);
System.out.println("Balance : "+bal);
class AccountDemo
static int i=0;
public static void main(String argv[]) throws IOException
Account ob[]=new Account[10];
 BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
```

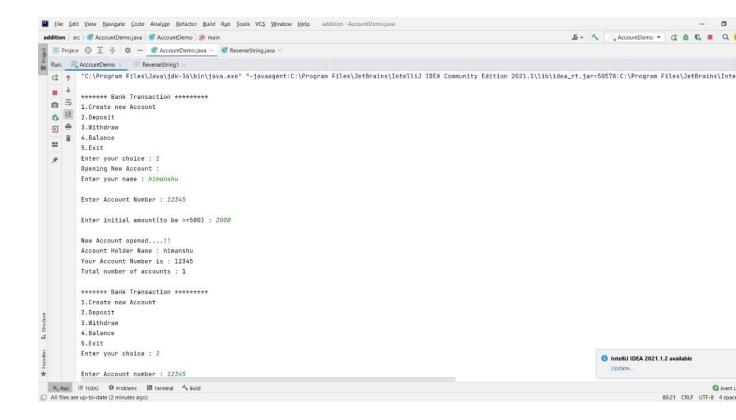
```
double amt;
String name;
int ch,accno,k;
boolean t=false;
while(true)
System.out.println("\n****** Bank Transaction ********");
System.out.println("1.Open new Account\n2.Deposit");
System.out.println("3.Withdraw\n4.Balance\n5.Exit");
System.out.print("Enter your choice : ");
ch=Integer.parseInt(br.readLine());
switch(ch)
{
case 1:
System.out.println("Opening New Account : ");
System.out.print("Enter your name : ");
name=br.readLine();
System.out.print("\nEnter Account Number : ");
accno=Integer.parseInt(br.readLine());
System.out.print("\nEnter initial amount(to be >=500) : ");
amt=Double.parseDouble(br.readLine());
if(amt<500)
System.out.println("You cannot create an account with less than Rs.500/-");
else
{
 ob[i]=new Account(amt,name,accno);
 i++;
}
break;
case 2:
```

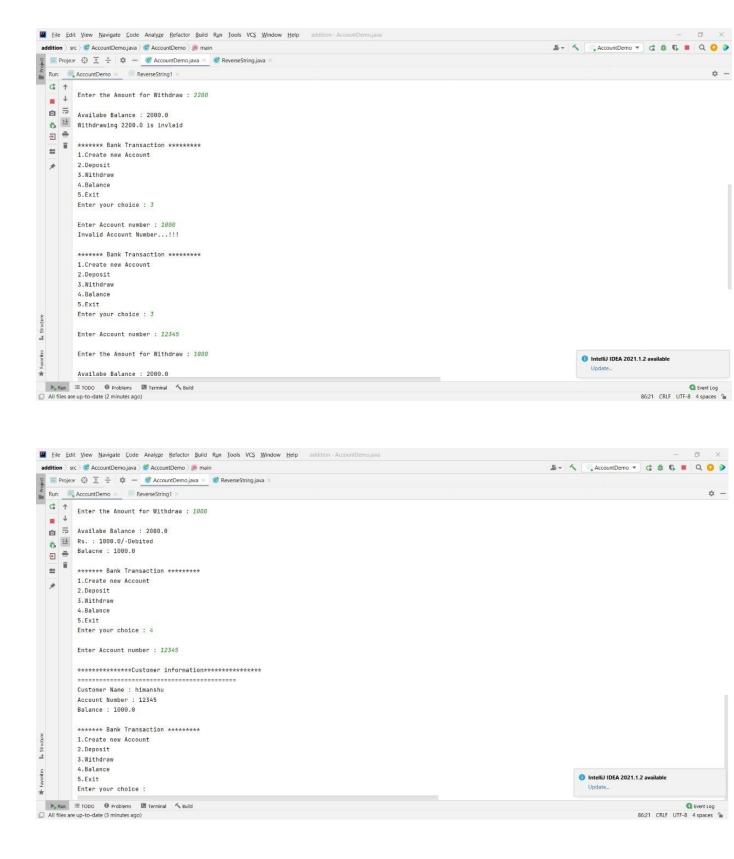
```
System.out.print("\nEnter Account number : ");
accno=Integer.parseInt(br.readLine());
for(k=0;k<i;k++)
if(accno==ob[k].accno)
t=true;
break;
}
if(t)
{
System.out.print("\nEnter the Amount for Deposit : ");
amt=Double.parseDouble(br.readLine());
ob[k].deposit(amt);
}
else
System.out.println("Invalid Account Number...!!!");
t=false;
break;
case 3:
System.out.print("\nEnter Account number : ");
accno=Integer.parseInt(br.readLine());
for(k=0;k<i;k++)
if(accno==ob[k].accno)
t=true;
break;
}
if(t)
```

```
{
System.out.print("\nEnter the Amount for Withdraw : ");
amt=Double.parseDouble(br.readLine());
try
{
ob[k].withdraw(amt);
}
catch(LessBalanceException e)
{}
}
else
System.out.println("Invalid Account Number...!!!");
t=false;
break;
case 4:
System.out.print("\nEnter Account number : ");
accno=Integer.parseInt(br.readLine());
for(k=0;k<i;k++)
if(accno==ob[k].accno)
t=true;
break;
}
if(t)
{
//System.out.println(accno +" asdfsdf " +ob[k].accno);
ob[k].balance();
}
else
```

```
System.out.println("Invalid Account Number...!!!");
t=false;
break;

case 5:
System.exit(1);
default: System.out.println("Invalid Choice !!!");
}
```





Submitted by Himanshu Chandola , HLD Campus