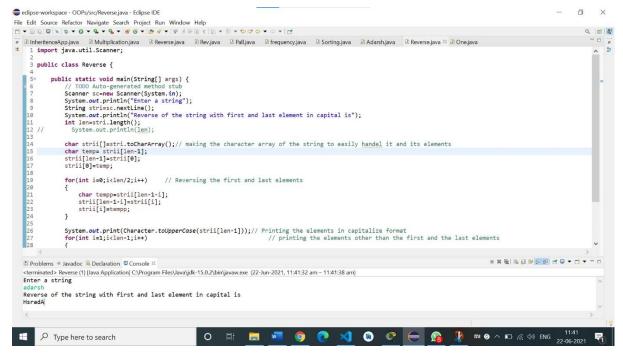
Java

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)

```
import java.util.Scanner;
public class Reverse {
      public static void main(String[] args) {
             // TODO Auto-generated method stub
             Scanner sc=new Scanner(System.in);
             System.out.println("Enter a string");
             String stri=sc.nextLine();
             System.out.println("Reverse of the string with first and last
element in capital is");
             int len=stri.length();
//
          System.out.println(len);
        char strii[]=stri.toCharArray();// making the character array of the
string to easily <a href="handel">handel</a> it and its elements
             char temp= strii[len-1];
             strii[len-1]=strii[0];
             strii[0]=temp;
        for(int i=0;i<len/2;i++) // Reversing the first and last elements</pre>
            char tempp=strii[len-1-i];
            strii[len-1-i]=strii[i];
            strii[i]=tempp;
        }
        System.out.print(Character.toUpperCase(strii[len-1]));// Printing the
elements in capitalize format
        for(int i=1;i<len-1;i++)</pre>
                                                                     // printing the
elements other than the first and the last elements
            System.out.print(strii[i]);
        System.out.print(Character.toUpperCase(strii[0]));// printing he elements
in capitalize format
             sc.close();
      }
}
```



Output 1:

Enter a string

adarsh

Reverse of the string with first and last element in capital is HsradA

Output 2:

Enter a string

hello mmy name is adarsh rana

Reverse of the string with first and last element in capital is Anar hsrada si eman ymm olleH

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.

```
import java.io.*;
import java.lang.*;
class LessBalanceException extends Exception
LessBalanceException(double amt)
System.out.println("Withdrawing "+amt+" is invlaid");
}
class Account
 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("1.0pen 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);
  }
 break;
 case 2:
 System.out.print("\nEnter Account number : ");
  accno=Integer.parseInt(br.readLine());
  for(k=0;k<i;k++)</pre>
  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;
 System.out.print("\nEnter Account number : ");
  accno=Integer.parseInt(br.readLine());
  for(k=0;k<i;k++)</pre>
  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++)</pre>
   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 !!!");
}
```

