GRAPHIC ERA HILL
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Department of Computer Application

JAVA Programming Lab

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MCA Sec-C

SEM-2

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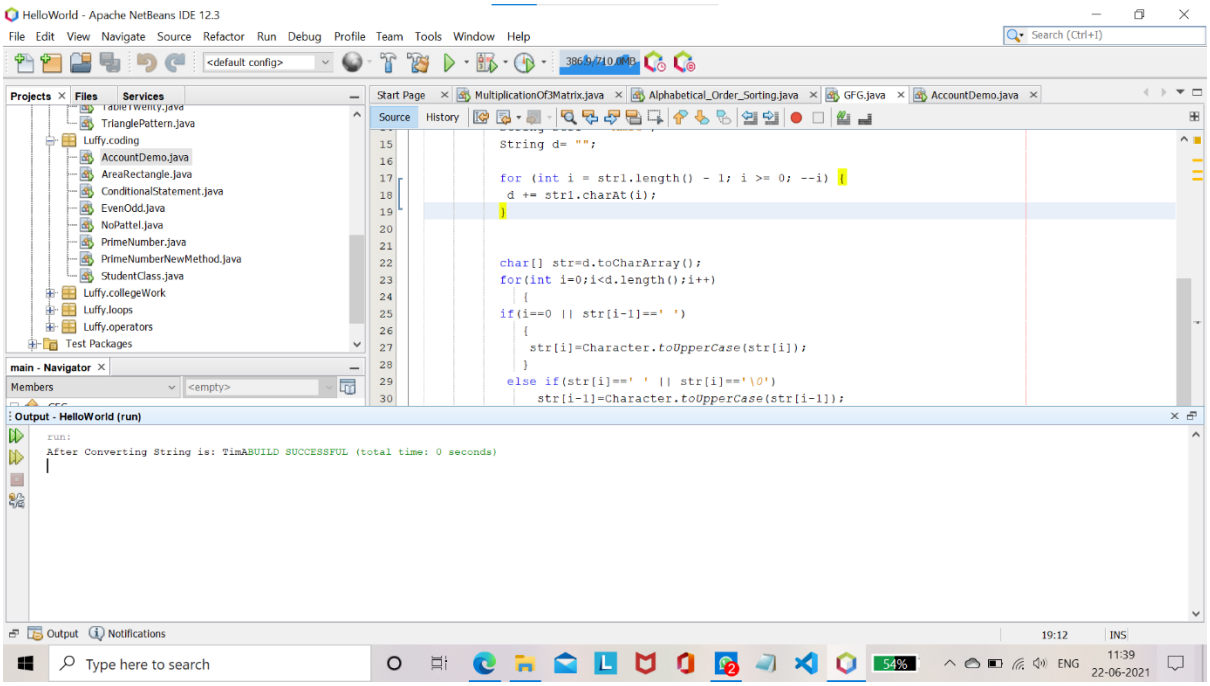
Que = Write a Java Program which, prints the elements of a string in such a way that the first and last element of the string are printed in Upper case and the intermediate elements are printed in reverse order.

Ans =

```
import java.io.*;
import java.util.*;
import java.lang.*;
/**
 * @author AMIT RAWAT
 */
public class GFG
{
            public static void main(String[] args)
            {

             String str1 = "amit" ;
             String d= "";
             for (int i = str1.length() - 1; i >= 0; --i) {
              d += str1.charAt(i);
             }
             char[] str=d.toCharArray();
             for(int i=0;i<d.length();i++)
               {
             if(i==0 || str[i-1]==' ')
               {
                str[i]=Character.toUpperCase(str[i]);
               }
              else if(str[i]==' ' || str[i]=='\0')
                 str[i-1]=Character.toUpperCase(str[i-1]);
               }
             System.out.print("After Converting String is: ");
             for(int i=0;i<d.length();i++)
             System.out.print( str[i] );
                        }
          }
```

OUTPUT :



Que = 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.

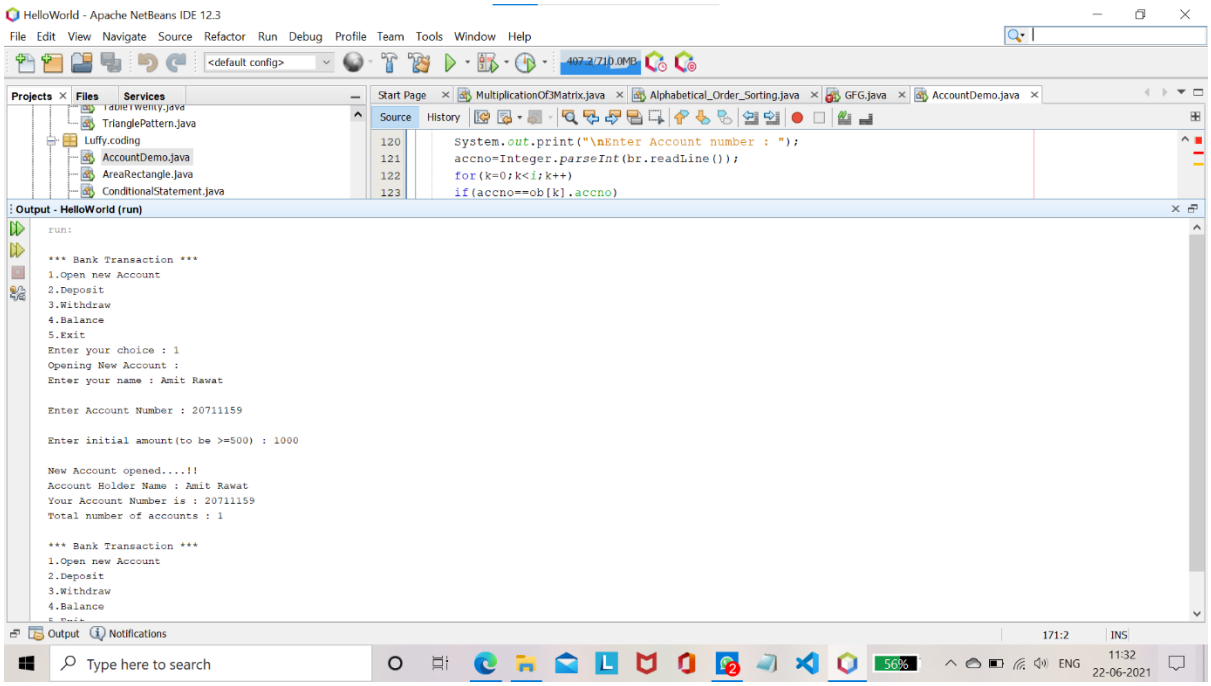
Ans =

```
import java.io.*;
import java.lang.*;

/**
 *
 * @author AMIT RAWAT
 */

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.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 !!!");
   }
  }
 }
}
```

Output :


HelloWorld - Apache NetBeans IDE 12.3
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Projects Files Services
TrianglePattern.java
Luffy.coding
AccountDemo.java
AreaRectangle.java
ConditionalStatement.java
Start Page
MultiplicationOf3Matrix.java
Alphabetical_Order_Sorting.java
GFG.java
AccountDemo.java
Source History
120 System.out.print("\nEnter Account number : ");
121 accno=Integer.parseInt(br.readLine());
122 for(k=0;k<i;k++)
123 if(accno==ob[k].accno)
Output - HelloWorld (run)
run:
*** Bank Transaction ***
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 1
Opening New Account :
Enter your name : Amit Rawat
Enter Account Number : 20711159
Enter initial amount(to be >=500) : 1000
New Account opened....!!
Account Holder Name : Amit Rawat
Your Account Number is : 20711159
Total number of accounts : 1
*** Bank Transaction ***
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
Output Notifications
171:2 INS
Type here to search
56%
ENG
11:32
22-06-2021