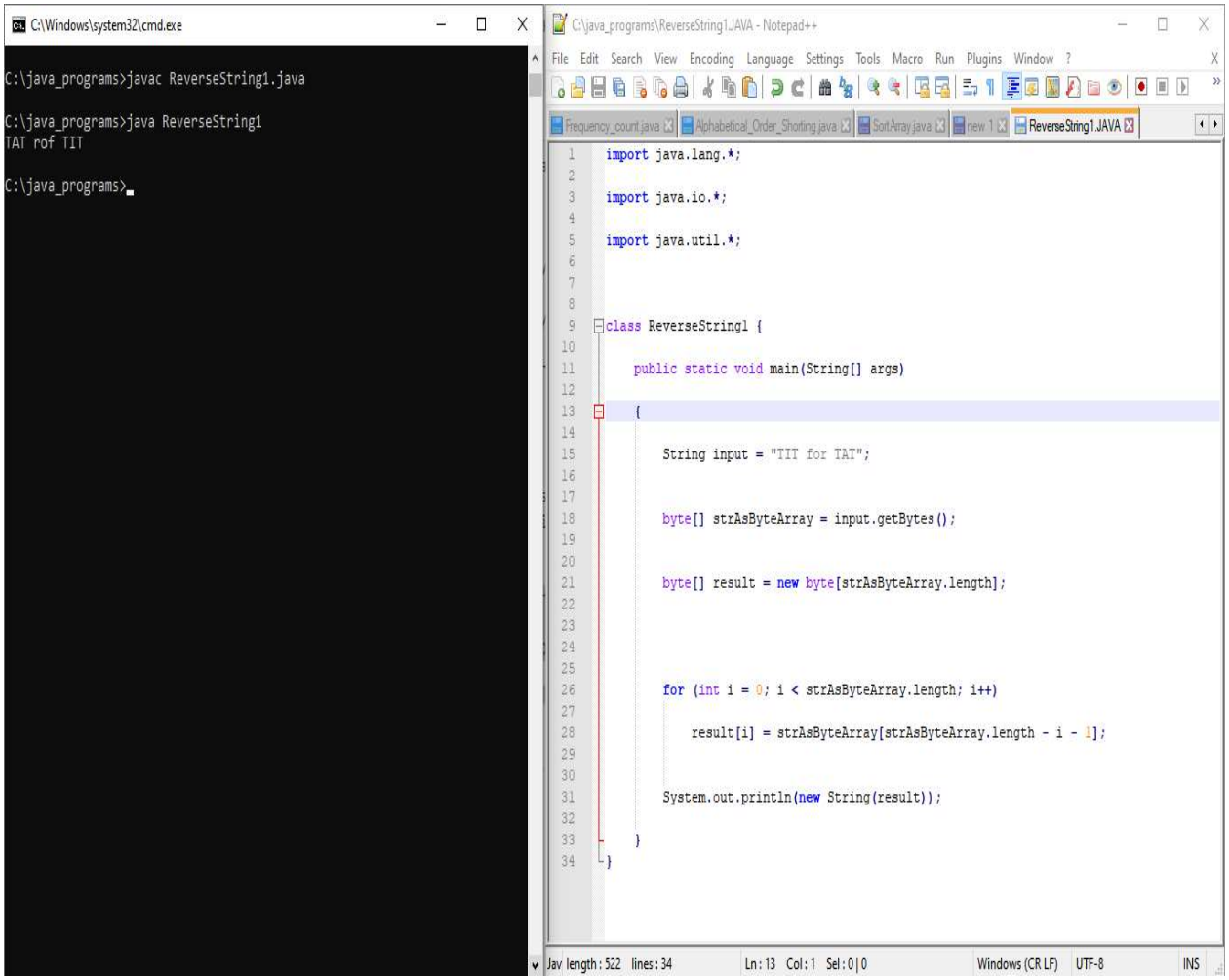
NAME – MAYANK BAGAULI ROLL_NO. -200186

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.lang.*;

import java.io.*;

import java.util.*;

class ReverseString1 {

    public static void main(String[] args)

    {

        String input = "TIT for TAT";


        byte[] strAsByteArray =
input.getBytes();


        byte[] result = new
byte[strAsByteArray.length];
```

```
        for (int i = 0; i <
strAsByteArray.length; i++)



  result[i] =
strAsByteArray[strAsByteArray.length - i -
1];


        System.out.println(new

String(result));

    }
}
```

OUTPUT:


C:\Windows\system32\cmd.exe
C:\java_programs>javac ReverseString1.java
C:\java_programs>java ReverseString1
TAT rof TIT
C:\java_programs>
C:\java_programs\ReverseString1.JAVA - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
Frequency_count.java
Alphabetical_Order_Shorting.java
SortArray.java
new 1
ReverseString1.JAVA
import java.lang.*;
import java.io.*;
import java.util.*;
class ReverseString1 {
public static void main(String[] args)
{
String input = "TIT for TAT";
byte[] strAsByteArray = input.getBytes();
byte[] result = new byte[strAsByteArray.length];
for (int i = 0; i < strAsByteArray.length; i++)
result[i] = strAsByteArray[strAsByteArray.length - i - 1];
System.out.println(new String(result));
}
}
Jav length : 522 lines : 34
Ln : 13 Col : 1 Sel : 0 | 0
Windows (CR LF)
UTF-8
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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.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());
```

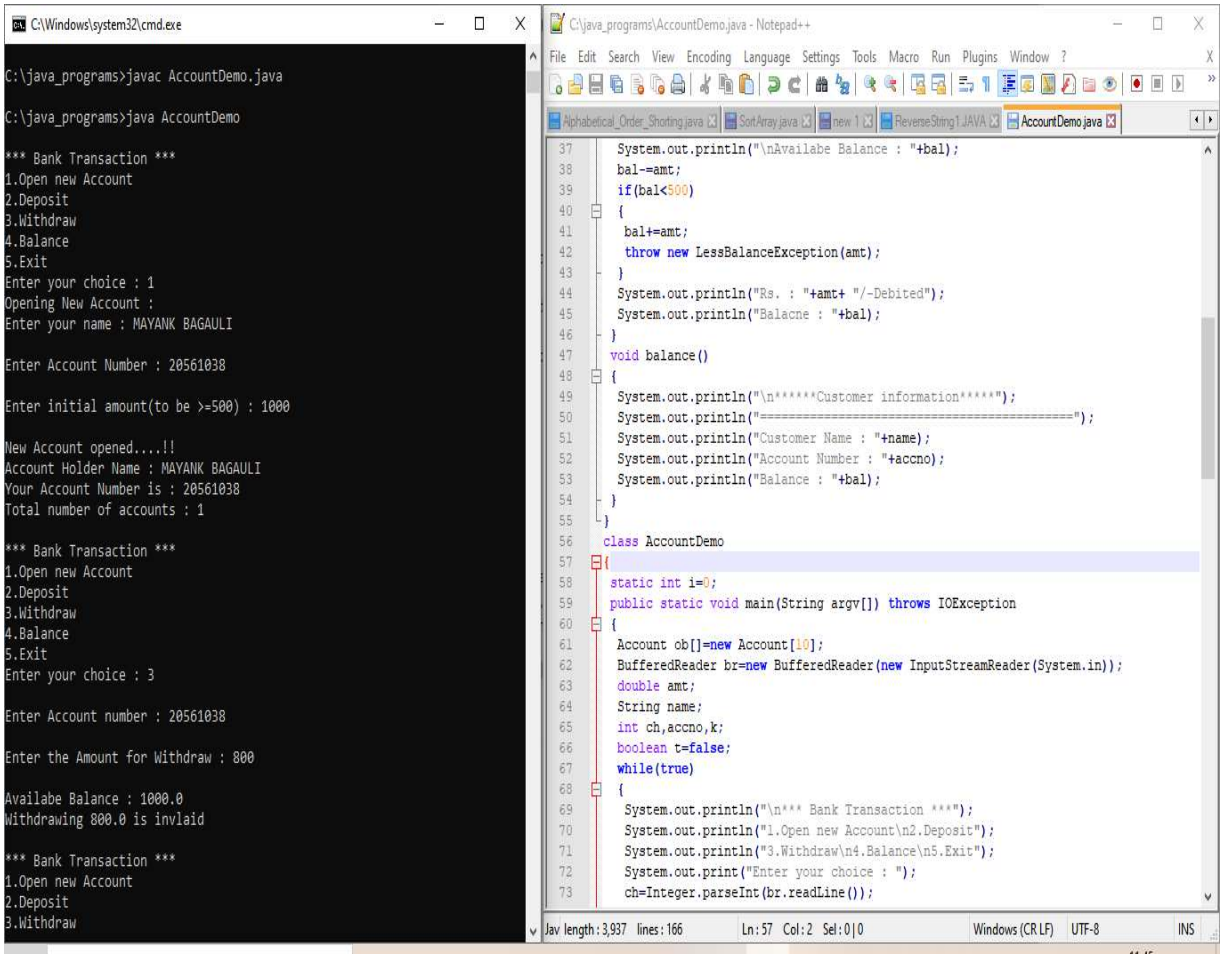
```
   System.out.print("\nEnter initial
amount(to be >=500) : ");
   amt=Double.parseDouble(br.readLine());
   if(amt<500)
   System.out.println("You cannot create
an account with less than Rs.500/-");
   else
   {
    ob[i]=new Account(amt,name,accno);
    i++;
   }
   break;

   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());
```

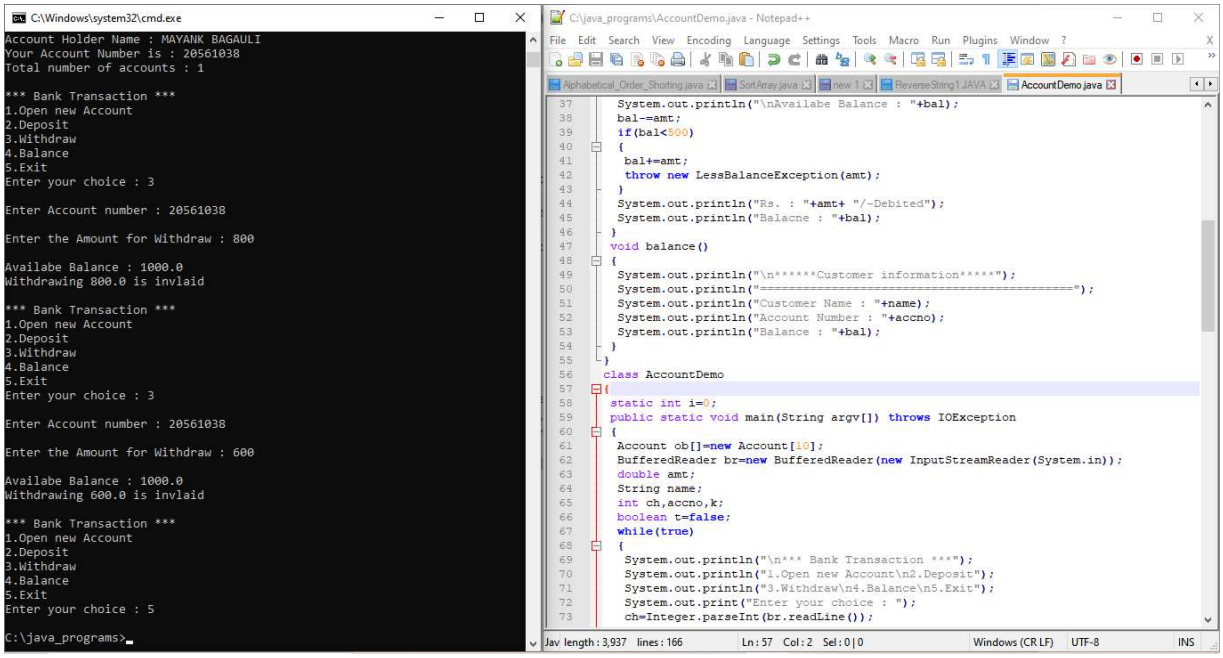
```
     ob[k].deposit(amt);
    }
    else
    System.out.println("Invalid Account
Number...!!!");
    t=false;
    break;

    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:




C:\Windows\system32\cmd.exe
Account Holder Name : MAYANK BAGAULI
Your Account Number is : 20561038
Total number of accounts : 1
*** Bank Transaction ***
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 3
Enter Account number : 20561038
Enter the Amount for Withdraw : 800
Availabe Balance : 1000.0
Withdrawing 800.0 is invlaid
*** Bank Transaction ***
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 3
Enter Account number : 20561038
Enter the Amount for Withdraw : 600
Availabe Balance : 1000.0
Withdrawing 600.0 is invlaid
*** Bank Transaction ***
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 5
C:\java_programs>
C:\java_programs\AccountDemo.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
Alphabetical_Order_Shorting.java
SortArray.java
new 1
ReverseString1.JAVA
AccountDemo.java
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());
Jav length : 3,937 lines : 166
Ln : 57 Col : 2 Sel : 0 | 0
Windows (CR LF)
UTF-8
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