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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)

Source Code:

```
import java.util.Scanner;

public class Reverse

{



    public static void main(String[] args)
```

```
{


 String str1 = "Muskan";

 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]);
    }
}
```

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.

Source code:

```
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
```

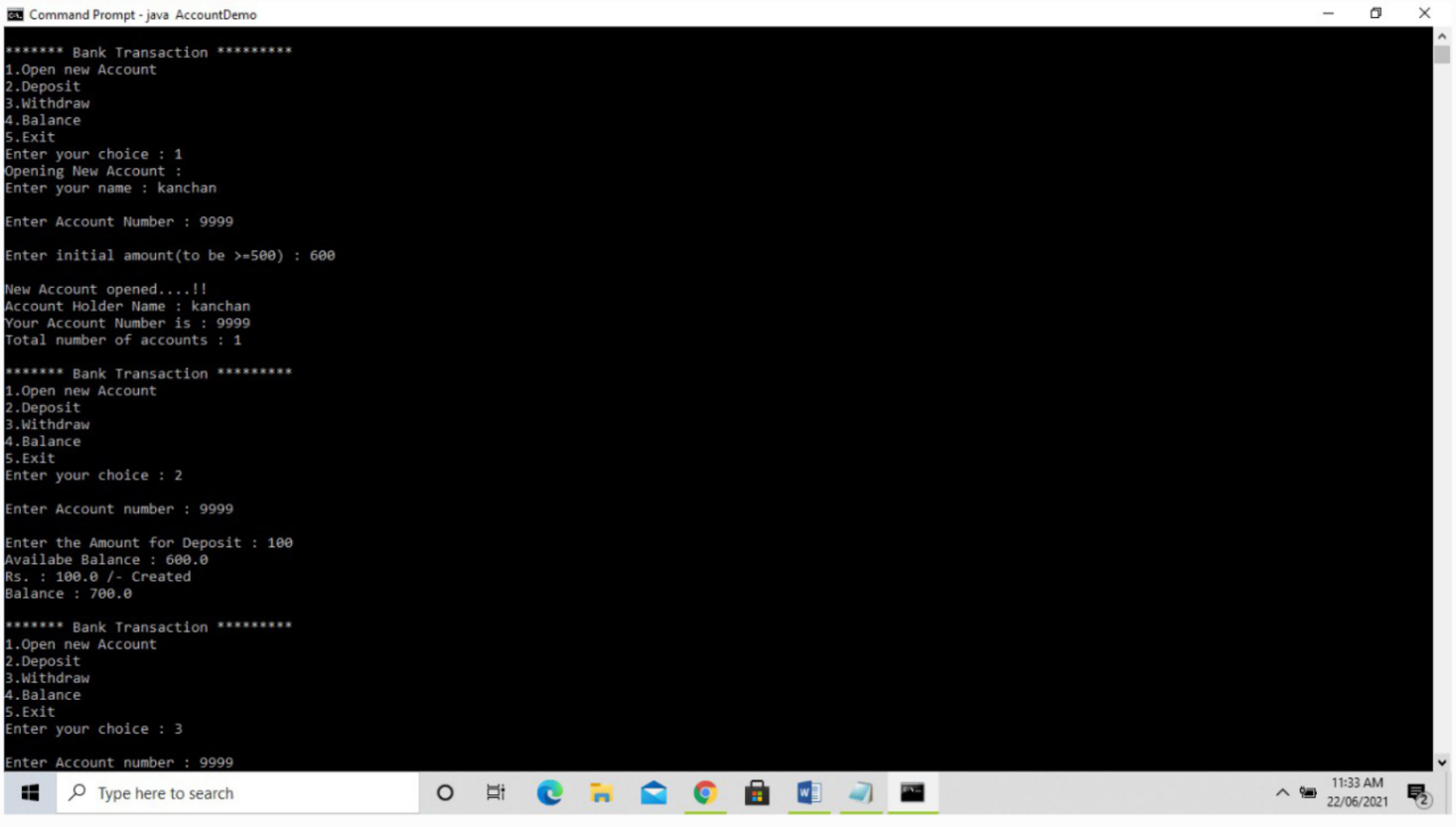
```
Account\n2.Deposit");

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++;
   }
```

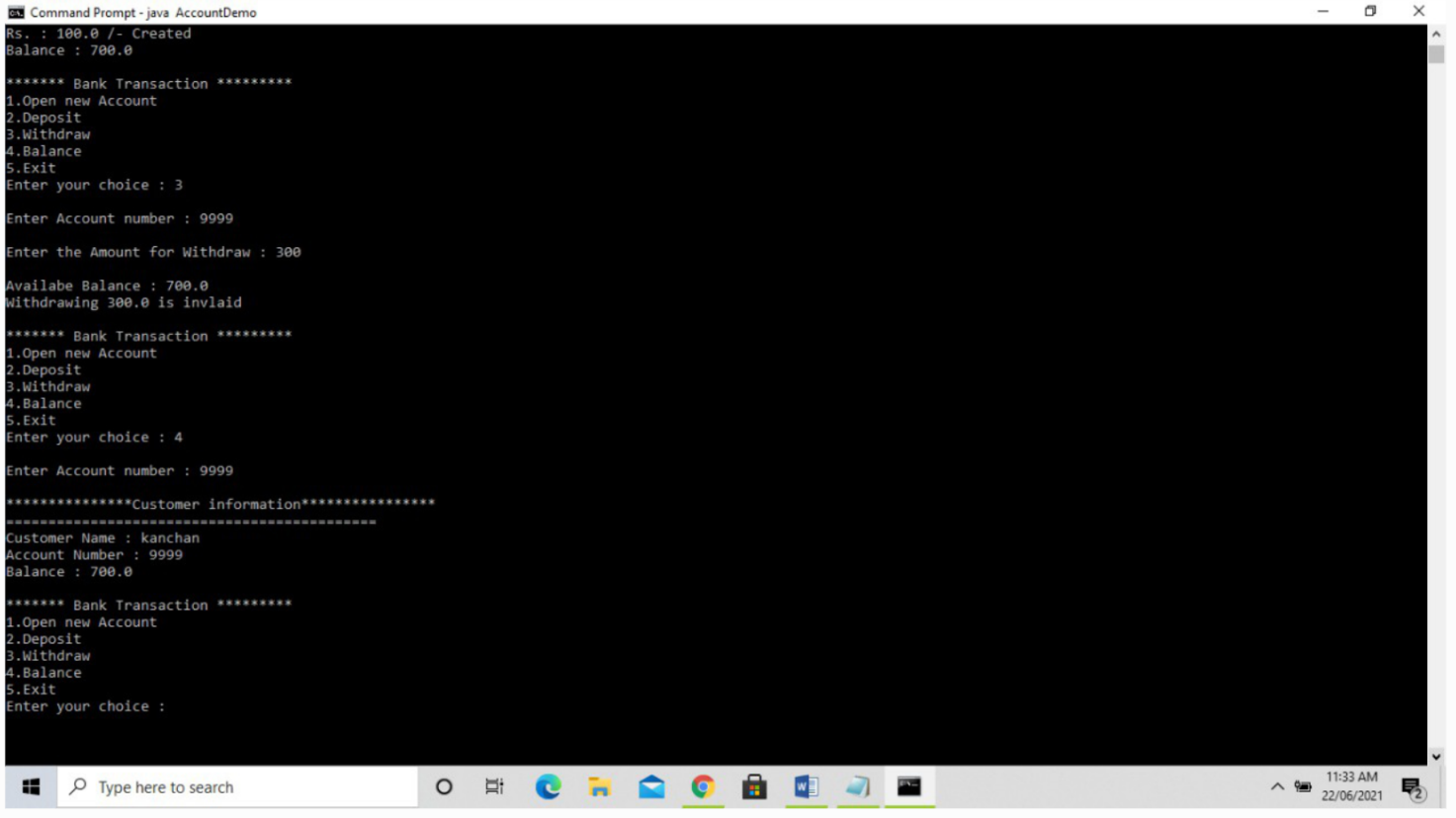
```
  break;

  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 !!!");
```

```
    }
  }
 }
}
```


Command Prompt - java AccountDemo
****** Bank Transaction *********
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 1
Opening New Account :
Enter your name : kanchan
Enter Account Number : 9999
Enter initial amount(to be >=500) : 600
New Account opened....!!
Account Holder Name : kanchan
Your Account Number is : 9999
Total number of accounts : 1
****** Bank Transaction *********
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 2
Enter Account number : 9999
Enter the Amount for Deposit : 100
Availabe Balance : 600.0
Rs. : 100.0 /- Created
Balance : 700.0
****** Bank Transaction *********
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 3
Enter Account number : 9999
Type here to search
11:33 AM
22/06/2021


Command Prompt - java AccountDemo
Rs. : 100.0 /- Created
Balance : 700.0
****** Bank Transaction *********
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 3
Enter Account number : 9999
Enter the Amount for Withdraw : 300
Availabe Balance : 700.0
Withdrawing 300.0 is invlaid
****** Bank Transaction *********
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 4
Enter Account number : 9999
**********Customer information**********
Customer Name : kanchan
Account Number : 9999
Balance : 700.0
****** Bank Transaction *********
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice :
Type here to search
11:33 AM
22/06/2021