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)

```
code-:
import java.util.Scanner;
public class Reverse
{
public static void main(String[] args)
 {
String str1 = "gaurav";
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++)</pre>
System.out.print(str[i]);
}
```

```
C:\Users\Lenovo\Desktop>javac Reverse.java
C:\Users\Lenovo\Desktop>java Reverse
After Converting String is: VaruaG
C:\Users\Lenovo\Desktop>
```

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.

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);
 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("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();
}
System.out.println("Invalid Account Number...!!!");
t=false;
break;
case 5:
System.exit(1);
default: System.out.println("Invalid Choice !!!");
```



