Java Programming PMC 202

Q1 . 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.

```
ReverseMidString.java 
 3 □public class ReverseMidString{
     static void printReverse (String str)
 6 🖨
 7
              int i = 0;
 8
              for (i = 0; i < str.length() && str.charAt(i) != ' '; i++)</pre>
  9
                  System.out.print(str.charAt(i)) ;
 10
              String word = "";
 11
 13
 14
              for (; i < str.length(); i++) {</pre>
 15
                  if (str.charAt(i) != ' ')
 16
 17
                      word += str.charAt(i);
 18
 19
                  else {
 20
                          System.out.print(new StringBuilder(word).
                          reverse().toString() + " ");
word = "";
 21
 22
 23
 24
 25
 26
 27
              System.out.print(word + " ");
 28
 29
 30
          public static void main (String []args)
 31
              String str = "Hello java code";
 32
 33
              printReverse(str);
 34
 35
 36
 37
     }
```

Command Prompt

```
Microsoft Windows [Version 10.0.19041.928]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sushil rathour>s:

S:\>cd "java"

S:\java>javac ReverseMidString.java

S:\java>javac ReverseMidString.java

S:\java>java ReverseMidString
Hello avaj code
S:\java>
```

Q2.

```
S:\java>
S:\java>
S:\java>javac AccountDemo.java
S:\java>java AccountDemo
*** Bank Transaction ***
1.Create new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 1
Opening New Account :
Enter your name : sushil
Enter Account Number : 115
Enter initial amount(to be >=500) : 1000
New Account opened....!!
Account Holder Name : sushil
Your Account Number is : 115
Total number of accounts : 1
*** Bank Transaction ***
1.Create new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 2
Enter Account number : 115
Enter the Amount for Deposit : 500
Availabe Balance : 1000.0
Rs. : 500.0 /- Created
Balance : 1500.0
```

```
*** Bank Transaction ***
1.Create new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 3
Enter Account number : 115
Enter the Amount for Withdraw : 2000
Availabe Balance : 1500.0
Withdrawing 2000.0 is invlaid
*** Bank Transaction ***
1.Create new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 3
Enter Account number : 115
Enter the Amount for Withdraw : 600
Availabe Balance : 1500.0
Rs.: 600.0/-Debited
Balacne : 900.0
*** Bank Transaction ***
1.Create new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 4
Enter Account number : 115
******Customer information****
_____
Customer Name : sushil
Account Number : 115
Balance : 900.0
```

```
ReverseMidString.java 🗵 📙 AccountDemo.java 🗵
     import java.io.*;
import java.lang.*;
 3
     class LessBalanceException extends Exception
 4 ₽{
  5
          LessBalanceException (double amt)
  6
  7
              System.out.println("Withdrawing "+amt+" is invlaid");
 8
          }
     1
 9
 10
     class Account
 11 早{
          static int count=0;
 13
          int accno;
 14
          double bal;
 15
          String name;
 16
          Account (double bal, String n, int accno)
 17 中
 18
              System.out.println("\nNew Account opened...!!");
 19
              this.bal=bal;
 20
              count++;
 21
              System.out.println("Account Holder Name : " + n);
 22
              name=n;
 23
              System.out.println("Your Account Number is: "+accno);
 24
              this.accno=accno;
              System.out.println("Total number of accounts : "+count);
 25
 26
 27
 28
          void deposit(double amt)
 29
 30
              System.out.println("Availabe Balance : "+bal);
 31
              bal=bal+amt;
 32
              System.out.println("Rs. : "+amt+" /- Created");
 33
              System.out.println("Balance : "+bal);
 34
          void withdraw(double amt) throws LessBalanceException
 36
 37
              System.out.println("\nAvailabe Balance : "+bal);
 38
              bal-=amt;
```

```
🔚 ReverseMidString.java 🗵 📙 AccountDemo.java 🗵
                System.out.println("\nAvailabe Balance : "+bal);
                bal-=amt;
 39
                if (bal<500)
 40
 41
                     bal+=amt;
 42
                     throw new LessBalanceException(amt);
 43
                System.out.println("Rs. : "+amt+ "/-Debited");
 44
 45
                System.out.println("Balacne: "+bal);
 46
 47
           void balance()
 48
                System.out.println("\n*****Customer information*****");
 49
                50
                System.out.println("Customer Name : "+name);
 51
                System.out.println("Account Number : "+accno);
 52
 53
                System.out.println("Balance : "+bal);
 54
 56 class AccountDemo
 57
     ₽{
 58
           static int i=0:
 59
           public static void main(String argv[]) throws IOException
 60
 61
                Account ob[]=new Account[10];
 62
                BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
 63
                double amt:
 64
                String name;
 65
                int ch, accno, k;
 66
                boolean t=false;
 67
                while (true)
 68
 69
                     System.out.println("\n*** Bank Transaction ***");
                     System.out.println("1.Create new Account\n2.Deposit");
System.out.println("3.Withdraw\n4.Balance\n5.Exit");
 71
 72
                     System.out.print("Enter your choice : ");
                     ch=Integer.parseInt(br.readLine());
 74
                     switch (ch)
           a 🗵 🗎 AccountDemo.java 🗵
Reve
                       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());
 82
                        System.out.print("\nEnter initial a
                                                          unt(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
 88
                           ob[i]=new Account (amt, name, accno);
                           i++;
 91
                    case 2:
 94
                       System.out.print("\nEnter Account number : ");
 95
                        accno=Integer.parseInt(br.readLine());
 96
                        for (k=0; k<i; k++)
 97
                           if (accno==ob[k].accno)
 98
 99
                               t=true;
                               break;
104
105
106
                           System.out.print("\nEnter the Amount for Deposit : ");
                           amt=Double.parseDouble(br.readLine());
                           ob[k].deposit(amt);
109
                           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;
```

```
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 !!!");
```