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**Subject - PMC - 202, Java Programming Lab**

**Class - MCA(2)**

**Campus - Haldwani, Gehu**

**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 ReverseStr
{

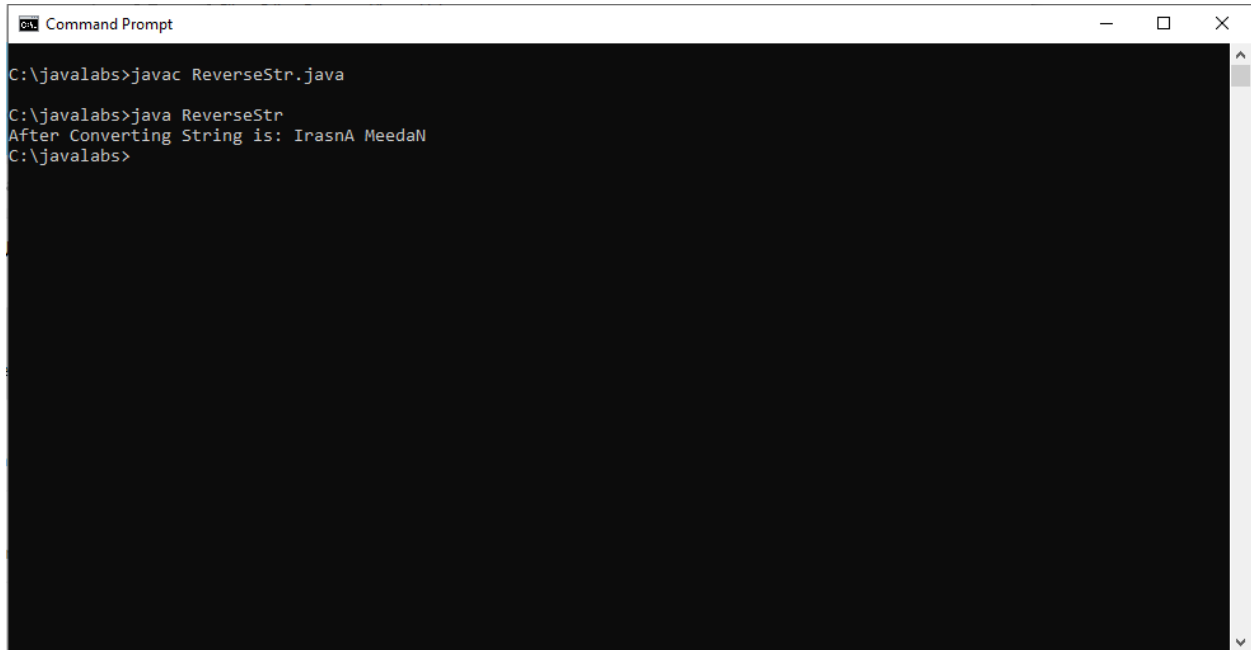
    public static void main(String[] args)
    {

        String str1 = "Nadeem Ansari";
        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:-**



```
C:\javababs>javac ReverseStr.java
C:\javababs>java ReverseStr
After Converting String is: IrasnA MeedaN
C:\javababs>
```

**2. Write a Java Program that has a Class Which Creates Account, perform Deposit 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 Not vlaid");
    }
}
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:\javab\javac AccountDemo.java
C:\javab>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 : Nadeem Ansari

Enter Account Number : 4495

Enter initial amount(to be >=500) : 500

New Account opened....!!
Account Holder Name : Nadeem Ansari
Your Account Number is : 4495
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 : 4495

Enter the Amount for Deposit : 1000
Availabe Balance : 500.0
Rs. : 1000.0 /- Created
Balance : 1500.0

** Bank Transaction **
1.Open new Account
2.Deposit
3.Withdraw
4.Balance

```

```
Command Prompt
Balacne : 700.0

** Bank Transaction **
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 4

Enter Account number : 4495

***Customer information**
=====
Customer Name : Nadeem Ansari
Account Number : 4495
Balance : 700.0

** Bank Transaction **
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 5

C:\javabab>
```