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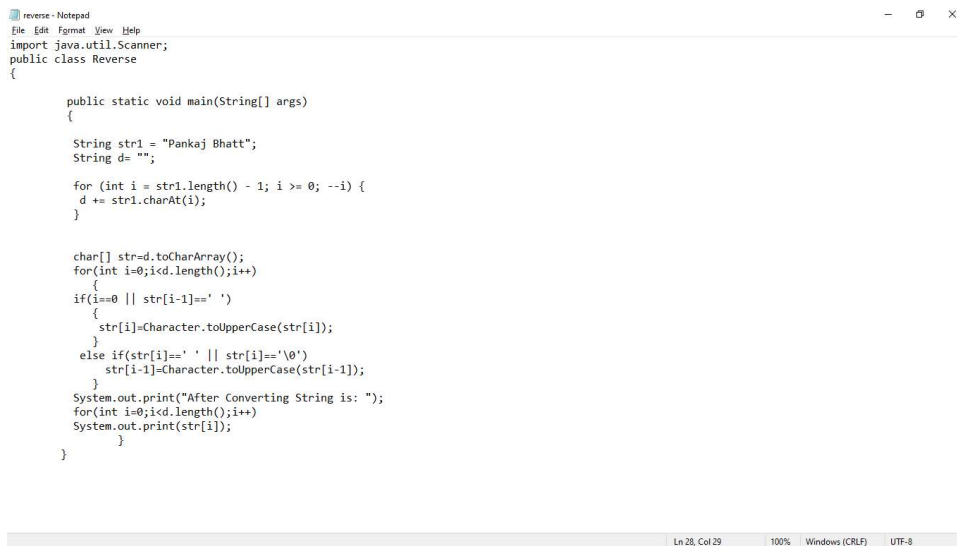
Course: MCA (2C)

Subject: Java Programming

Campus: Dehradun GEHU

**Ques1:** 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:



```
reverse - Notepad
File Edit Format View Help
import java.util.Scanner;
public class Reverse
{
    public static void main(String[] args)
    {
        String str1 = "Pankaj Bhatt";
        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]);
        }
    }
}
```

Ln 28, Col 29 100% Windows (CRLF) UTF-8

Output:

```
Command Prompt
Microsoft Windows [Version 10.0.19042.1052]
(c) Microsoft Corporation. All rights reserved.

C:\Users\hp>cd desktop

C:\Users\hp\Desktop>cd java

C:\Users\hp\Desktop\java>javac Reverse.java

C:\Users\hp\Desktop\java>java Reverse
After Converting String is: TtahB JaknaP
C:\Users\hp\Desktop\java>
```

**Ques2:** 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:

```
AccountDemo - Notepad
File Edit Format View Help
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");
        }
    }
}
```

```
AccountDemo - Notepad
File Edit Format View Help
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 : ");
```

```
AccountDemo - Notepad
File Edit Format View Help
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;
```

```
AccountDemo - Notepad
File Edit Format View Help
    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:

```
Command Prompt
Microsoft Windows [Version 10.0.19042.1052]
(c) Microsoft Corporation. All rights reserved.

C:\Users\hvp>cd desktop
C:\Users\hvp\Desktop>cd java
C:\Users\hvp\Desktop\java>javac AccountDemo.java
C:\Users\hvp\Desktop\java>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 : Pankaj Bhatt
Enter Account Number : 5213
Enter initial amount(to be >=500) : 700

New Account opened...!!
Account Holder Name : Pankaj Bhatt
Your Account Number is : 5213
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 : 5213
Enter the Amount for Deposit : 100
Availabe Balance : 700.0
Rs. : 100.0 /- Created
Balance : 800.0

*** Bank Transaction ***
```

```
Command Prompt
*** Bank Transaction ***
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 3
Enter Account number : 5213
Enter the Amount for Withdraw : 300
Availabe Balance : 800.0
Rs. : 300.0/-Debited
Balance : 500.0
*** Bank Transaction ***
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 4
Enter Account number : 5213
*****Customer Information*****
Customer Name : Pankaj Bhatt
Account Number : 5213
Balance : 500.0
*** Bank Transaction ***
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 5
C:\Users\hp\Desktop\java>
```