

PROGRAM NO.2.B

Program 2-b

1CR19CS172
SUPRIYA P

PROGRAM STATEMENT

Write a Java class called Customer to store their name and date of birth. The date of birth format is dd/mm/yyyy. Write methods to read customer data <name, dd/mm/yyyy> and display as <name, dd, mm, yyyy> using String Tokenizer class considering delimiter as '/'.

ALGORITHM

Algorithm : class Customer

//Input : String name, String date of birth of customer as dd/mm/yyyy format <name, dd/mm/yyyy>
//Output : Display customer details as <name, dd, mm, yyyy>

STEP 1 : Create a class Customer with data members as name & dob and methods as display()

STEP 2 : Read input from user through Customer object as <name, dd/mm/yyyy>

STEP 3 : Use string tokenizer class to split dob to dd, mm, yyyy format.

STEP 4 : Display customer details as <name, dd, mm, yyyy>

Program:

```
package TestPK;
import java.util.*;
public class Lab2b
{
    public static void main(String[] args)
    {
        Scanner s=new Scanner(System.in);
        Customer c=new Customer();
        System.out.println("enter name of customer");
        String name=s.nextLine();
        System.out.println("enter date of birth in dd/mm/yyyy format");
        String dob=s.nextLine();
        c.read(name, dob);
        c.display();
    }
}
class Customer
{
    String name;
    String dob;
    void read(String nam,String date)
    {
        name=nam;
        dob=date;
    }
    void display()
    {
        StringTokenizer st = new StringTokenizer(dob,"/");
        System.out.print("<" +name);
        int num=st.countTokens();
        while (st.hasMoreTokens()) {
            System.out.print(", "+st.nextToken());
        }
        System.out.print(">");
        System.out.println("\nTotal number of tokens:"+num);
    }
}
```

Program Execution

```
1 package TestPK;
2 import java.util.*;
3 public class Lab2b
4 {
5     public static void main(String[] args)
6     {
7         Scanner s=new Scanner(System.in);
8         Customer c=new Customer();
9         System.out.println("enter name of customer");
10        String name=s.nextLine();
11        System.out.println("enter date of birth in dd/mm/yyyy format");
12        String dob=s.nextLine();
13        c.read(name, dob);
14        c.display();
15    }
16 }
17 class Customer
18 {
19     String name;
20     String dob;
21     void read(String nam,String date)
22     {
23         name=nam;
24         dob=date;
25     }
26     void display()
27     {
28         StringTokenizer st = new StringTokenizer(dob,"/");
29         System.out.print("<"+name);
30         int num=st.countTokens();
31         while (st.hasMoreTokens()) {
32             System.out.print(", "+st.nextToken());
33         }
34         System.out.print(">");
35         System.out.println("\nTotal number of tokens:"+num);
36     }
37 }
```

Output

```
<terminated> Lab2b [Java Application] C:\Program Files\Java\jdk-16.0.1\bin\javaw.exe (27-May-2021, 12:40:26 pm – 12:40:47 pm)
enter name of customer
Supriya
enter date of birth in dd/mm/yyyy format
10/07/2001
<Supriya,10,07,2001>
Total number of tokens:3
```