Sample Input	Sample Output	Explanation
Donald Biden 14/06/1946	Donal061946-donal14- DonaldBiden@1234-	As per the steps given policy number is Donal061946, customer Id is donal14 and customer password is DonaldBiden@1234
Rafal Federer 03/06/1986	Rafal061986-rafal03- RafalFederer@1234-	As per the steps given policy number is Rafal061986, customer Id is rafal03 and customer password is RafalFederer@1234
Tom	0-null-null-	As per the steps given, if the length of the customer name is less

Problem Statement

This question aims to test your knowledge in Java Libraries, Java LocalDate, and String Functions. Implement as per the given requirement.

Requirement:

1. We need to generate the **policy details** for a Customer.
2. The input should be the **customer's name** and **date of birth**.
3. The output should be a **String** containing **policy number, customer Id**, and **customer password** with separator as a **hyphen(-)**(policyNo-customerId-customerPassword-).

Instructions:

As per the above requirement,

A. Complete the **policyGenerator(String customerName, LocalDate customerDOB)** method in **PolicyDetailsGenerator** class as below.

    a. Create an empty array of Strings "**policyDetails**" with size equals to 3. (Where **policyDetails** is the variable name of the array. We are assuming that the 0th index will store the **policy number**, the 1st index will store the **customer Id**, and the 2nd index will store the **customer password**.)

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A. Complete the **policyGenerator(String customerName, LocalDate customerDOB)** method in **PolicyDetailsGenerator** class as below.

a. Create an empty array of Strings **"policyDetails"** with size equals to 3. (Where **policyDetails** is the variable name of the array. We are assuming that the 0th index will store the **policy number**, the 1st index will store the **customer Id**, and the 2nd index will store the **customer password**.)

b. Check, if the **length** of the **customerName is less than 5**, then,

  i. Set the 0th index of the **"policyDetails"**, i.e. **policy number** to **"0"**.

  ii. Set the 1st index of the **"policyDetails"**, i.e. **customer Id** to **"null"**.

  iii. Set the 2nd index of the **"policyDetails"**, i.e. customer password to **"null"**.

  iv. Finally, return the **"policyDetails"**.

c. Else, Do the following

  i. Extract the individual values like **Year, Month** and **Date** from the **LocalDate customerDOB** argument of **policyGenerator()** method.

  ii. Set the 0th index of the **"policyDetails"**, i.e. **policy number** to **first 5 letters of the customerName + The Customer's birth Month and Birth Year** (Hint: If the **customerName** is "Jackie" and **customerDOB** is **"13/06/1993"** then the **policy number** should be **"Jacki061993"**).

  iii. Set the 1st index of the **"policyDetails"**, i.e. **customer**

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"13/06/1993" then the **policy number should be** "Jackl061993").

iii. Set the 1st index of the "**policyDetails**", i.e. **customer Id** to the **first 5 letters of the customerName** by **lowering all the letters + The Customer's Birth Date.** (Hint: If the **customerName** is "Jackie" and the **customerDOB** is "13/06/1993" then the **customer ID should be** "Jackl13").

iv. Set the 2nd index of the "**policyDetails**", i.e. **customer password** to **customerName** + "**@1234**". (Hint: If the **customerName** is "Jackie Chang" then the **customer password should be** "JackieChang@1234" I.e. The white spaces shouldn't come in the password if a Customer is providing first name and last name with space).

v. Finally, return the "**policyDetails**".

B. Complete the "**Main**" class which is partially implemented as below.

a. Convert the **customerDOB** from **String** to LocalDate and store it in a new variable **custDOB**, as the **policyGenerator()** method in **PolicyDetailsGenerator** class is accepting the second parameter as **LocalDate**.(Hint: The format should be "**d/MM/yyyy**")

b. Call the **policyGenerator()** in a static way by passing the **String customerName** which was taken as an input from the keyboard and **LocalDate custDOB** which was calculated in the **previous step**.

c. Close the **Scanner** class object.

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a. Convert the **customerDOB** from **String** to **LocalDate** and store it in a new variable **custDOB**, as the **policyGenerator()** method in **PolicyDetailsGenerator** class is accepting the second parameter as **LocalDate**.(Hint: The format should be "d/MM/yyyy")

b. Call the **policyGenerator()** in a static way by passing the **String customerName** which was taken as an input from the keyboard and **LocalDate custDOB** which was calculated in **the previous step**.

c. Close the **Scanner** class object.

For example, if the **customerName** is "Jackie Chang" and the **customerDOB** is "13/06/1993", Then the output should be "Jackl061993-Jackl13-JackieChang@1234-"

Partially implemented **"PolicyDetailsGenerator"** and **"Main"** class is already given to you.

Note:

- Don't alter/change the codes which have already given.
- Whatever class/interface you are adding OR already provided should not be 'public'.

Sample Input	Sample Output	Explanation
Donald Biden	Donal061946-donal14-	As per the steps given

B. Complete the "**Main**" class which is partially implemented as below.

    a. Convert the **customerDOB** from **String** to LocalDate and store it in a new variable **custDOB**, as the **policyGenerator()** method in **PolicyDetailsGenerator** class is accepting the second parameter as **LocalDate**.(Hint: The format should be "d/MM/yyyy")

    b. Call the **policyGenerator()** in a static way by passing the **String customerName** which was taken as an input from the keyboard and **LocalDate custDOB** which was calculated in the **previous step**.

    c. Close the **Scanner** class object.

For example, if the **customerName** is "Jackie Chang" and the **customerDOB** is "13/06/1993", Then the output should be "Jacki061993-Jacki13-JackieChang@1234-"

Partially implemented "**PolicyDetailsGenerator**" and "**Main**" class is already given to you.

Note:

- **Don't alter/change the codes which have already given.**
- **Whatever class/interface you are adding OR already provided should not be 'public'.**

```java
package com.infy;

import java.time.LocalDate;
import java.time.format.DateTimeFormatter;
import java.util.Scanner;

class Main {

    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        String customerName=sc.nextLine();
        String customerDOB=sc.next();
        DateTimeFormatter dtf=DateTimeFormatter.ofPattern("d/MM/yyyy");
        LocalDate custDOB=LocalDate.parse(customerDOB,dtf);
        String[] policyDetails=PolicyDetailsGenerator.policyGenerator(customerName, custDOB);
        for(String string:policyDetails) {
            System.out.print(string+"-");
        }
        sc.close();
    }}
```

```java
public class PolicyDetailsGenerator{
    public static String[] policyGenerator(String customerName, LocalDate customerDOB) {
        String[] policyDetails=new String[3];
        if(customerName.length()<5) {
            policyDetails[0]="0";
            policyDetails[1]=null;
            policyDetails[2]=null;
        }
        else {
            Integer m=customerDOB.getMonth().getValue();
            String month;
            if(m<10) {
                month="0"+m.toString();
            }
            else {
                month=m.toString();
            }
            Integer y=customerDOB.getYear();
            Integer d=customerDOB.getDayOfMonth();
            String dt;
            if(d<10) {
                dt="0"+d.toString();
            }
            else {
                dt=d.toString();
            }
            policyDetails[0]=customerName.substring(0,5)+month+y.toString();
            policyDetails[1]=customerName.substring(0,5).toLowerCase()+dt;
            policyDetails[2]=customerName.replace(" ", "")+"@1234";
        }
        return policyDetails;
    }
}
```