

## Assignment – I

Submitted to: Jaswinder Singh

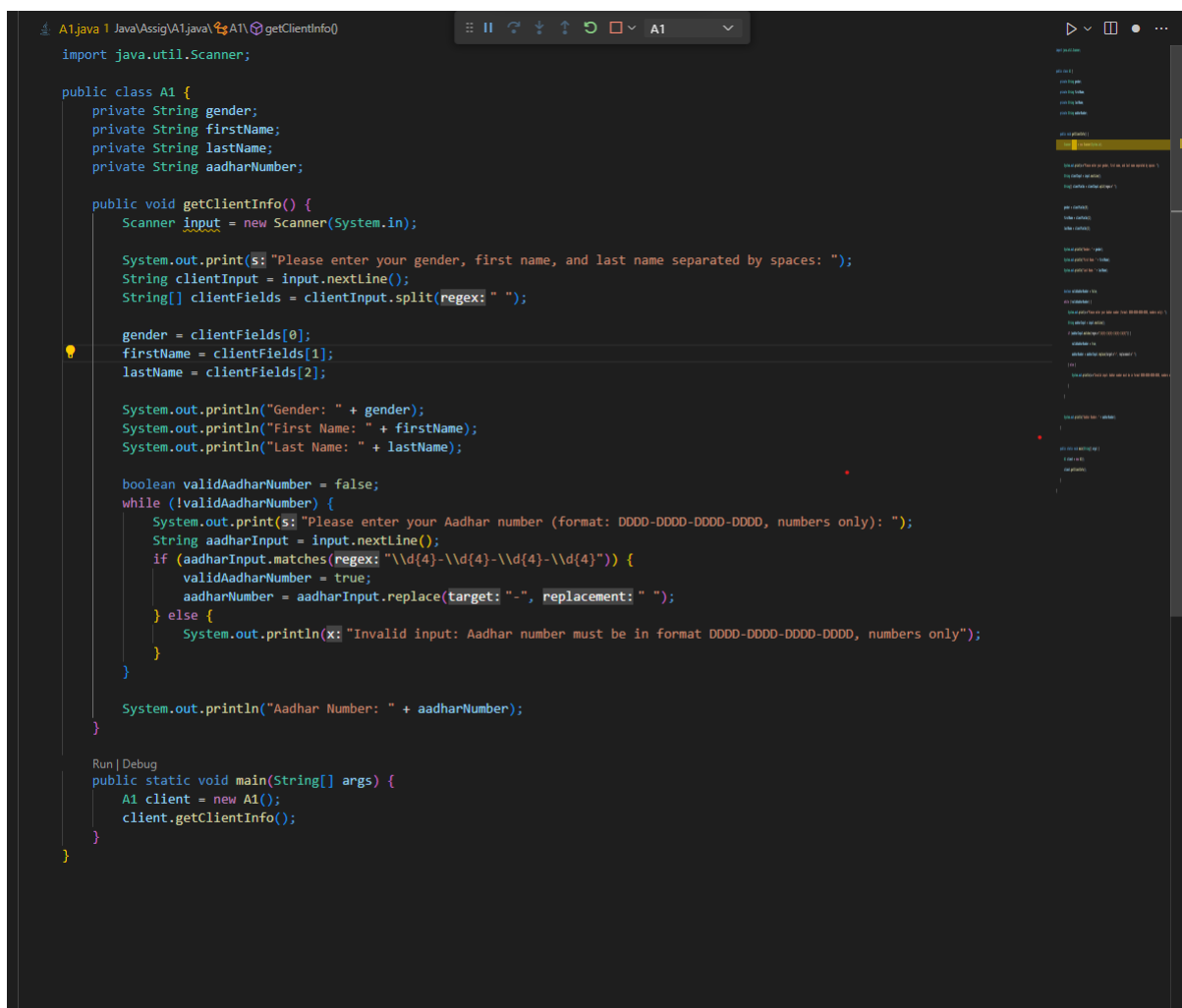
Submitted by: Rohit Kotamsetti | 12205208 | 40(B) | D2213

### Question:

Create a customer class that asks users to enter gender, first name and last name in one string. The program should extract the gender, first and last name from the string and should print this information. Then the program should prompt the user to enter a Social Security number in this format DDD-DD-DDDD, where D is a digit. Your program should check whether the input is valid. Take this number from the user in the form of a string. The program should keep on asking the user about the social security number until the user enters a valid social security number.

Hint: Use length () function to check the total length of a social security number. Also check that you must have a "-" at index 3 and index 6 of string and digits at remaining indexes.

Code:

A screenshot of a Java IDE (likely IntelliJ IDEA) showing the code for the assignment. The code is in a file named A1.java. It defines a class A1 with private attributes gender, firstName, lastName, and aadharNumber. The class has a method getClientInfo() that prompts the user for gender, first name, and last name, and then a loop for validating the Aadhar number. The main method creates an instance of A1 and calls getClientInfo().

```
import java.util.Scanner;

public class A1 {
    private String gender;
    private String firstName;
    private String lastName;
    private String aadharNumber;

    public void getClientInfo() {
        Scanner input = new Scanner(System.in);

        System.out.print("Please enter your gender, first name, and last name separated by spaces: ");
        String clientInput = input.nextLine();
        String[] clientFields = clientInput.split(regex: " ");

        gender = clientFields[0];
        firstName = clientFields[1];
        lastName = clientFields[2];

        System.out.println("Gender: " + gender);
        System.out.println("First Name: " + firstName);
        System.out.println("Last Name: " + lastName);

        boolean validAadharNumber = false;
        while (!validAadharNumber) {
            System.out.print("Please enter your Aadhar number (format: DDDD-DDDD-DDDD-DDDD, numbers only): ");
            String aadharInput = input.nextLine();
            if (aadharInput.matches(regex: "\\d{4}-\\d{4}-\\d{4}-\\d{4}")) {
                validAadharNumber = true;
                aadharNumber = aadharInput.replace(target: "-", replacement: "");
            } else {
                System.out.println("Invalid input: Aadhar number must be in format DDDD-DDDD-DDDD-DDDD, numbers only");
            }
        }

        System.out.println("Aadhar Number: " + aadharNumber);
    }

    public static void main(String[] args) {
        A1 client = new A1();
        client.getClientInfo();
    }
}
```

## Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  SQL CONSOLE  COMMENTS
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\rhith\Documents> & 'C:\Program Files\Java\jdk-19\bin\java.exe' '-enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\rhith\AppData\Roaming\Code\User\workspaceStorage\2c58ae671196585c9f639ba61ec1ba\rndhat_java\
\it_wds_56F3de\bin' 'AI'
Please enter your gender, first name, and last name separated by spaces: Male Rohit K
Gender: Male
First Name: Rohit
Last Name: K
Please enter your Aadhar number (format: 0000-0000-0000-0000, numbers only): 1644-1564-1555-5648
Aadhar Number: 1644 1564 1555 5648
PS C:\Users\rhith\Documents>
```

## Repository:

<https://github.com/kotaroHS/java.git>

