

Aim:

The Spy Academy is implementing a new system to manage information about their agents. As part of this system, they need to create a class to represent an agent. Imagine yourself as the chief developer, and your task is to design a basic class named **Agent**.

Task:

Design a class named Agent with the following attributes: name (String), age (int), codename (String), and isUndercover (boolean).

Implement a method named **introduce()** that prints a message introducing the agent, including their name, age, and codename.

Additional Instructions:

Create an instance of the **Agent** class named **topAgent** in the main method.

Utilize user input within the main method to set the attributes of topAgent (name, age, codename, and isUndercover).

Invoke the **introduce()** method on **topAgent** to introduce this top agent to the team.

Source Code:

q22852/SpySystem.java

```
package q22852;
import java.util.Scanner;

// create class Agent and Attributes
class Agent{
    String name;
    int age;
    String codename;
    boolean isUndercover;

    void topAgentDetails(){
        System.out.println("Hello, I am Agent " +codename+ "."); // write your code here
        System.out.println("My real name is " +name+ "."); // write your code here
        System.out.println("I am " +age+ " years old."); // write your code here
    }
}

public class SpySystem {
    public static void main(String[] args) {
        Agent topAgent = new Agent();
        Scanner scanner = new Scanner(System.in);
        System.out.print("name: ");
        topAgent.name = scanner.nextLine();
        System.out.print("age: ");
        topAgent.age = scanner.nextInt();
        scanner.nextLine();
        System.out.print("codename: ");
        topAgent.codename = scanner.nextLine();
        System.out.print("undercover? (true/false): ");
        topAgent.isUndercover = scanner.nextBoolean();

        topAgent.topAgentDetails();
    }
}
```

```
        scanner.close();  
    }  
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
name: Alice
age: 27
codename: 007
undercover? (true/false): true
Hello, I am Agent 007.
My real name is Alice.
I am 27 years old.