

1.Implemetation of singleton Pattern:

Code:

```
public class Singleton {  
    private static Singleton instance;  
    private Singleton() {  
        System.out.println("Singleton Instance Created");  
    }  
    public static Singleton getInstance() {  
        if (instance == null) {  
            instance = new Singleton();  
        } else {  
            System.out.println("Returning existing Singleton instance");  
        }  
        return instance;  
    }  
}  
  
public class Main {  
    public static void main(String[] args) {  
        Singleton s1 = Singleton.getInstance();  
        Singleton s2 = Singleton.getInstance();  
  
        System.out.println("Are both instances same? " + (s1 == s2));  
    }  
}
```

Output:

```
D:\cognizant\code>javac Singleton.java Main.java  
  
D:\cognizant\code>java Main  
Singleton Instance Created  
Returning existing Singleton instance  
Are both instances same? true  
  
D:\cognizant\code>|
```

