

Ex. No. 4	INTERFACES AND ABSTRACT CLASSES

AIM

To develop a Java program to implement inheritance using Interfaces and Abstract classes

Verify its output .

ALGORITHM

STEP 1	:	Define an interface named Saran with an abstract method DragonBall. Define another interface named Favourite with an abstract method Bleach.
STEP 2	:	Create an abstract class named Vidhya that implements interfaces Saran and Favourite. Inside the abstract class, declare an abstract method AnimeCharacter.
STEP 3	:	Create a class named Details that extends Vidhya. Implement the methods DragonBall, Bleach, and AnimeCharacter within the Details class.
STEP 4	:	Define a main class named Saran_67. Inside the Saran_67 class, create an instance of Details. Invoke the DragonBall, Bleach, and AnimeCharacter methods on the instance.
STEP 5	:	Execute the Saran_67 class to run the code and observe the output.

PROGRAM

```
package Anime;
```

```
public interface Saran {  
    abstract void DragonBall();  
}
```

```
public interface Favourite {  
    abstract void Bleach();  
}
```

```
public abstract class Vidhya implements Saran, Favourite {
```

```
abstract void AnimeCharacter();
}

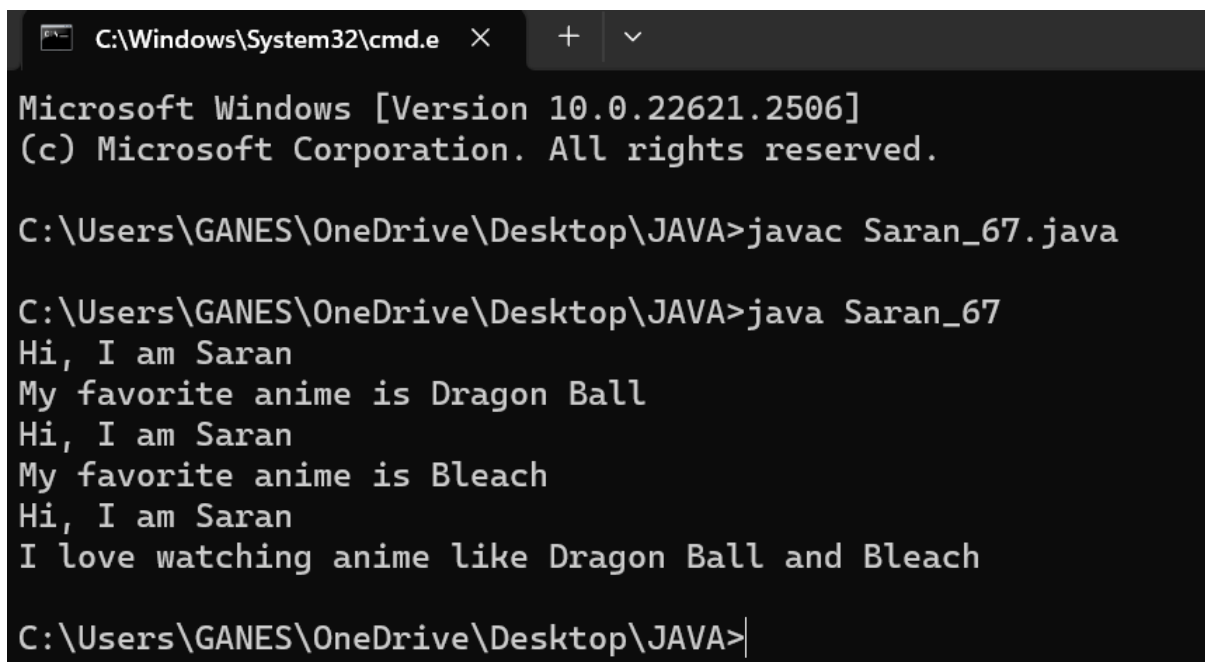
public class Details extends Vidhya {
    public void DragonBall() {
        System.out.println("Hi, I am Saran" + "\nMy favorite anime is Dragon Ball");
    }

    public void Bleach() {
        System.out.println("Hi, I am Saran" + "\nMy favorite anime is Bleach");
    }

    public void AnimeCharacter() {
        System.out.println("Hi, I am Saran" + "\nI love watching anime like Dragon Ball and Bleach");
    }
}

import Anime.Details;
import Anime.Saran;
import Anime.Favourite;
import Anime.Vidhya;

public class Saran_67 {
    public static void main(String args[]) {
        Details S67 = new Details();
        S67.DragonBall();
        S67.Bleach();
        S67.AnimeCharacter();
    }
}
```

OUTPUT:

```
C:\Windows\System32\cmd.e  X  +  v

Microsoft Windows [Version 10.0.22621.2506]
(c) Microsoft Corporation. All rights reserved.

C:\Users\GANES\OneDrive\Desktop\JAVA>javac Saran_67.java

C:\Users\GANES\OneDrive\Desktop\JAVA>java Saran_67
Hi, I am Saran
My favorite anime is Dragon Ball
Hi, I am Saran
My favorite anime is Bleach
Hi, I am Saran
I love watching anime like Dragon Ball and Bleach

C:\Users\GANES\OneDrive\Desktop\JAVA>
```

MARK RUBRICS

R1	R2	R3	R4	R5	Total

RESULT

Thus a Java Program to program to implement inheritance using Interfaces and Abstract classes has been implemented and its output has been verified successfully.