

Practical No. 7

Aim:- Create, debug and execute programs based on developing a simple bean.

Theory:- A java bean is a java class that has private member variables, public getter and setter methods of a zero argument, public constructor.

To create java bean source follow these steps:

- Open your text editor and create a new file that will contain the java bean source and save it

- Now create the class that will instantiate the java bean save your file

- In the command prompt compile the java bean source

- Now compile the java application to instantiate the java bean

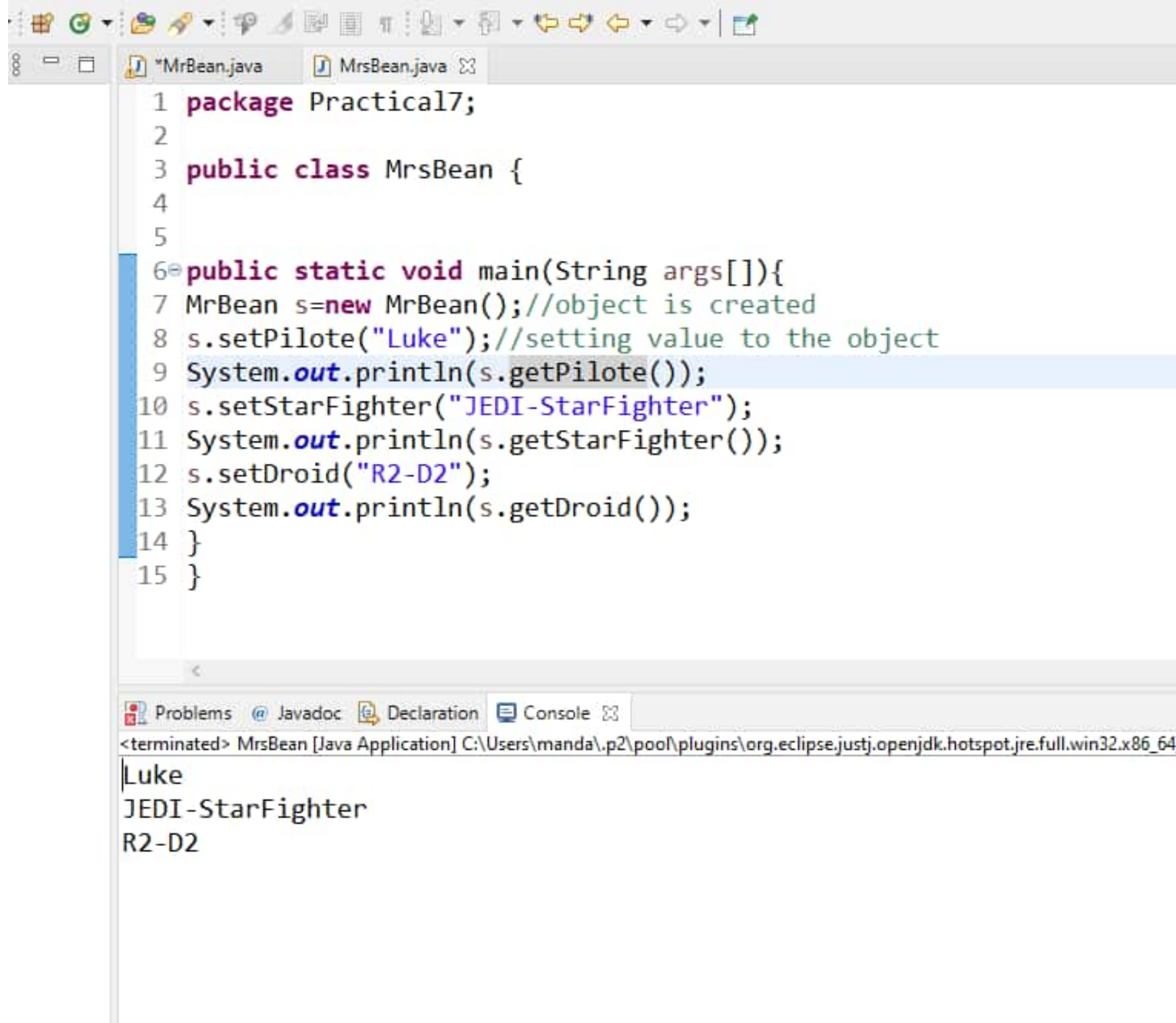
- Now run the java bean program

```

1 package Practical7;
2 import java.io.Serializable;
3 public class MrBean implements Serializable{
4     private String pilote;
5     private String starfighter;
6     private String droid;
7     public MrBean()
8     {}
9     public void setPilote(String pilote)
10    {
11        this.pilote=pilote;
12    }
13    public String getPilote()
14    {
15        return pilote;
16    }
17
18    public void setStarFighter(String starfighter)
19    {
20        this.starfighter=starfighter;
21    }
22
23    public String getStarFighter()
24    {
25        return starfighter;
26    }
27
28    public void setDroid(String droid)
29    {
30        this.droid=droid;
31    }
32
33    public String getDroid()
34    {
35        return droid;
36    }
37 }

```

I



The screenshot shows the Eclipse IDE interface. The top toolbar contains various icons for file operations and development tools. The editor window displays two files: `*MrBean.java` and `MrsBean.java`. The `MrsBean.java` file is open, showing the following Java code:

```
1 package Practical7;
2
3 public class MrsBean {
4
5
6 public static void main(String args[]){
7     MrBean s=new MrBean();//object is created
8     s.setPilote("Luke");//setting value to the object
9     System.out.println(s.getPilote());
10    s.setStarFighter("JEDI-StarFighter");
11    System.out.println(s.getStarFighter());
12    s.setDroid("R2-D2");
13    System.out.println(s.getDroid());
14 }
15 }
```

The bottom of the IDE features a panel with tabs for `Problems`, `Javadoc`, `Declaration`, and `Console`. The `Console` tab is active, displaying the output of the program:

```
<terminated> MrsBean [Java Application] C:\Users\manda\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64
Luke
JEDI-StarFighter
R2-D2
```