The code is :

```java
class Student {
private int id, age;
////////////////////////////////////////////////
// Helping functions
////////////////////////////////////////////////
private void trace(String s){
     System.out.println(s);
}
////////////////////////////
// Manager function
////////////////////////////
// Constructor
// Either one is fine
public Student(int d) { id = d;}
////////////////////////////
// Access function
////////////////////////////
public int getId() { return id; }
// Either one is fine
public void setId(int d) { id = d; }
// predicate
// This is wrong
public boolean isNotAStudent() { return id <=0; }
////////////////////////////
// Implementor function
////////////////////////////
public void graduate(){
    this.setId(-1);
    System.out.println("graduates");
}
public void lostIDCard(){
    this.setId(0);
    System.out.println("lost ID card");
}

}

public class Test {
```

```java
public static void main(String args[]) {

//create object james
Student james=new Student(1234);
System.out.println("the ID for James is " + james.getId());
System.out.print("james ");
james.lostIDCard();
if (james.isNotAStudent())
  System.out.println("james is not a student");
else
  System.out.println("james is a student");

// create object mike
Student mike =new Student(4567);
System.out.print("\nmike ");
mike.graduate();
if (mike.isNotAStudent())
  System.out.println("mike is not a student");
else
  System.out.println("mike is a student");
}

}
```

```
30  }
31  public void lostIDCard(){
32      this.setId(0);
33      System.out.println("lost ID card");
34  }
35
36  }
37
38  public class Test {
39  public static void main(String args[]) {
40
41  //create object james
42  Student james=new Student(1234);
43  System.out.println("the ID for James is " + james.getId());
44  System.out.print("james ");
45  james.lostIDCard();
46  if (james.isNotAStudent())
47      System.out.println("james is not a student");
48  else
49      System.out.println("james is a student");
50
51  // create object mike
52  Student mike =new Student(4567);
53  System.out.print("\nmike ");
54  mike.graduate();
55  if (mike.isNotAStudent())
56      System.out.println("mike is not a student");
57  else
58      System.out.println("mike is a student");
59  }
60
61  }
62
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4 ▾   ☐ Interactive   Stdin Inputs

CommandLine Arguments

▶ Execute   ···   ⌂

Result

CPU Time: 0.21 sec(s), Memory: 32644 kilobyte(s)   compiled and executed in 0.914 sec(s)

```
the ID for James is 1234
james lost ID card
james is not a student

mike graduates
mike is not a student
```