Assignment Submission Template
Student Details
Name
Registration No.
Department
Section
Subject Code
Subject Name
Assignment No. Assignment 2
1. Aim
To write a Java program to clone a simple object using the clone() method
2. Algorithm
<ol> <li>Start</li> <li>Create a class (e.g., Student) that implements the Cloneable interface.</li> <li>Define some data members (like id, name) and a constructor to initialize them.</li> <li>Override the clone() method from Object class using super.clone().</li> <li>In the main() method:</li> </ol>
Create an object of the class and initialize it.
Call the clone() method to create a copy of the object.  6. Print the data of both the original and cloned object to verify cloning.  7. Stop
3. Java Code
class Student implements Cloneable {   int id;   String name;
Student(int id, String name) {

```
this.id = id;
     this.name = name;
  }
  // Overriding clone() method
  public Object clone() throws CloneNotSupportedException {
     return super.clone();
  }
}
public class CloneExample {
  public static void main(String[] args) {
     try {
       // Creating an object
       Student s1 = new Student(101, "John");
       // Cloning object s1
       Student s2 = (Student) s1.clone();
       System.out.println("Original Object: " + s1.id + " " + s1.name);
       System.out.println("Cloned Object: " + s2.id + " " + s2.name);
     } catch (CloneNotSupportedException e) {
       System.out.println("Cloning not allowed!");
     }
  }
}
```

## 4. Output

```
Console X
<terminated > Cloneex [Java Application] C:\Users\Dharani Vendan\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot
Original Object: 101 John
Cloned Object: 101 John
```

```
1 package oopslab_java;
 4 class Studentclone implements Cloneable {
         int id;
         String name;
 80
         Studentclone(int id, String name) {
              this.id = id;
              this.name = name;
△15●
         public Studentclone clone() throws CloneNotSupportedException {
              return (Studentclone) super.clone();
 20 public class Cloneex {
         public static void main(String[] args) {
 210
 220
                  Studentclone s1 = new Studentclone(101, "John");
                  Studentclone s2 = s1.clone();
                  System.out.println("Original Object: " + s1.id + " " + s1.name);
System.out.println("Cloned Object: " + s2.id + " " + s2.name);
              } catch (CloneNotSupportedException e) {
 310
                  System.out.println("Cloning not allowed!");
 35 }
```

6. GitHub Repository Link
Paste your GitHub project URL here: