```
Menu:
1. Explore Data
2. Train Model
3. Test Model
4. Test.final Model
5. Exit
Enter your choice: 4
X: 26, Y: 31, predictedClass: 1
X: 27, Y: 15, predictedClass: 0
X: 22, Y: 48, predictedClass: 1
X: 13, Y: 27, predictedClass: 1
X: 27, Y: 27, predictedClass: 0
X: 25, Y: 32, predictedClass: 1
X: 3, Y: 30, predictedClass: 0
X: 5, Y: 8, predictedClass: 1
X: 41, Y: 45, predictedClass: 1
X: 23, Y: 29, predictedClass: 1
X: 29, Y: 12, predictedClass: 0
X: 10, Y: 43, predictedClass: 0
X: 45, Y: 5, predictedClass: 0
```

```
Menu:
1. Explore Data
2. Train Model
3. Test Model
4. Test.final Model
5. Exit
Enter your choice: 5
Exiting program...
```

```
Menu:
1. Explore Data
2. Train Model
3. Test Model
4. Test.final Model
5. Exit
Enter your choice: 1
X: 10, Y: 20, Class: 1
X: 25, Y: 45, Class: 0
X: 5, Y: 30, Class: 1
X: 35, Y: 10, Class: 0
X: 20, Y: 25, Class: 1
X: 40, Y: 15, Class: 0
X: 15, Y: 35, Class: 0
X: 30, Y: 5, Class: 0
X: 45, Y: 40, Class: 1
X: 12, Y: 18, Class: 1
X: 28, Y: 42, Class: 1
X: 8, Y: 32, Class: 0
X: 38, Y: 8, Class: 0
X: 18, Y: 22, Class: 1
X: 48, Y: 12, Class: 0
X: 13, Y: 33, Class: 0
X: 33, Y: 3, Class: 0
X: 43, Y: 46, Class: 1
X: 14, Y: 27, Class: 1
X: 29, Y: 47, Class: 1
X: 3, Y: 37, Class: 0
X: 42, Y: 6, Class: 1
X: 17, Y: 23, Class: 0
X: 47, Y: 16, Class: 0
X: 22, Y: 28, Class: 1
X: 32, Y: 48, Class: 1
X: 2, Y: 39, Class: 0
X: 41, Y: 4, Class: 1
X: 16, Y: 24, Class: 0
X: 46, Y: 17, Class: 0
X: 21, Y: 29, Class: 1
X: 31, Y: 49, Class: 1
X: 1, Y: 40, Class: 0
X: 39, Y: 7, Class: 1
X: 19, Y: 21, Class: 0
X: 49, Y: 14, Class: 1
X: 11, Y: 19, Class: 0
X: 27, Y: 43, Class: 1
X: 7, Y: 31, Class: 0
X: 37, Y: 9, Class: 1
X: 23, Y: 26, Class: 0
X: 43, Y: 0, Class: 1
X: 18, Y: 22, Class: 0
```

```
Menu:
1. Explore Data
2. Train Model
3. Test Model
4. Test.final Model
5. Exit
Enter your choice: 2
Minimum and Maximum X and Y values:
Class 0: X in [1 48], Y in [3 45]
Class 1: X in [5 49], Y in [0 49]
Separator Coordinates: X = 15, Y = 27
Training Error of the Model: 14
Labels of the regions:
 R1: 0
 R2: 1
 R3: 1
 R4: 0
```

```
Menu:
1. Explore Data
2. Train Model
3. Test Model
4. Test.final Model
5. Exit
Enter your choice: 3
X: 15, Y: 20, Class: 1, predictedClass: 1
X: 33, Y: 8, Class: 0, predictedClass: 0
X: 41, Y: 47, Class: 1, predictedClass: 1
X: 10, Y: 27, Class: 1, predictedClass: 1
X: 29, Y: 38, Class: 1, predictedClass: 1
X: 13, Y: 47, Class: 0, predictedClass: 0
X: 32, Y: 16, Class: 0, predictedClass: 0
X: 13, Y: 24, Class: 0, predictedClass: 1
X: 40, Y: 6, Class: 0, predictedClass: 0
X: 21, Y: 29, Class: 1, predictedClass: 1
X: 33, Y: 44, Class: 1, predictedClass: 1
X: 3, Y: 36, Class: 1, predictedClass: 0
Test success rate: 83.33%
```