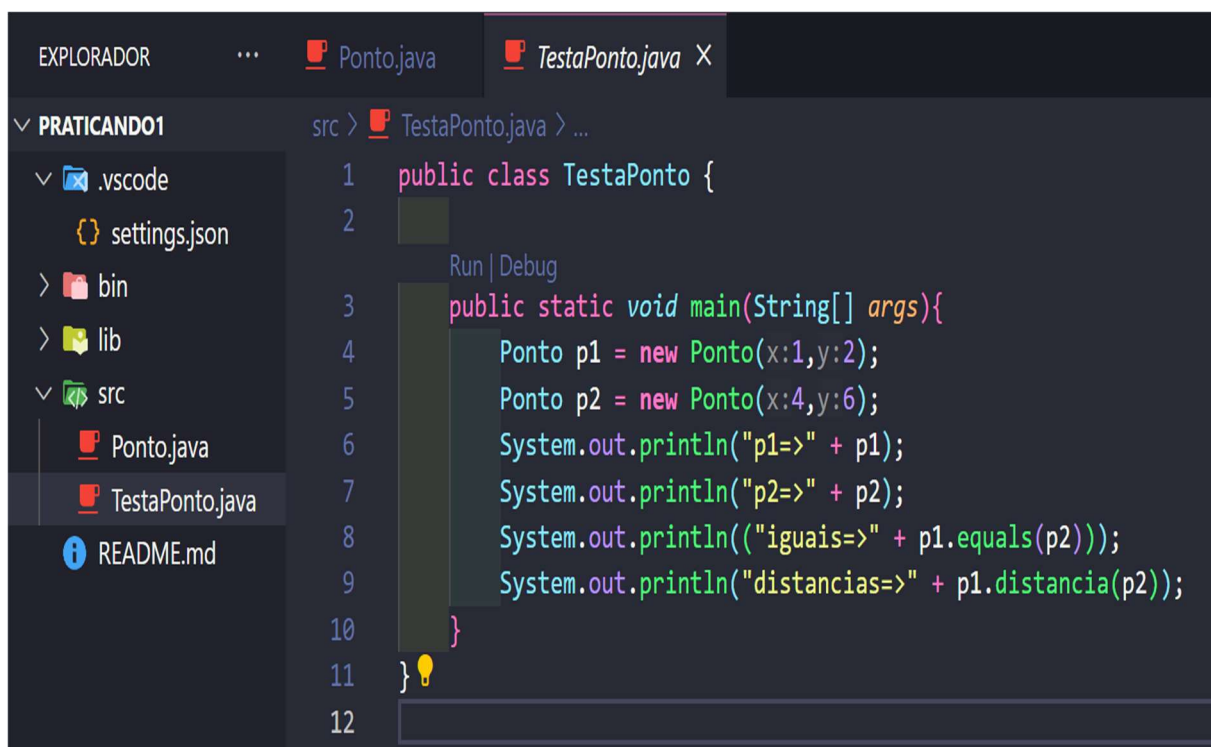


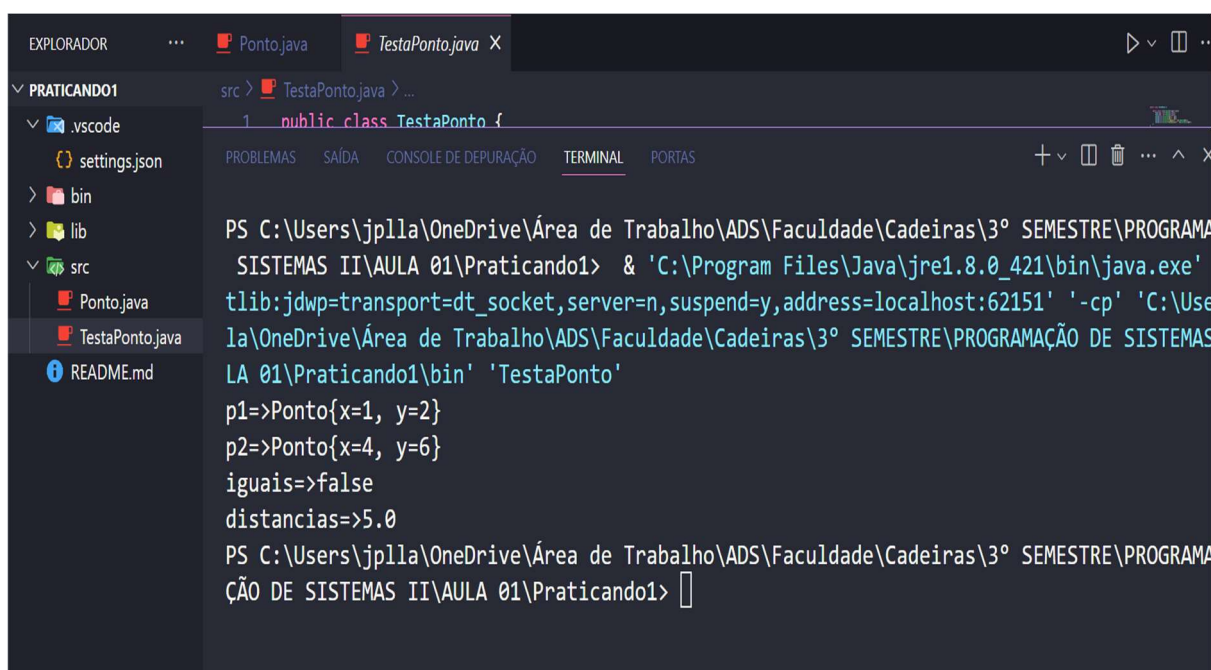
A1 – PRATICANDO

COMPONENTE CURRICULAR:	PROGRAMAÇÃO DE SISTEMAS II
INTEGRANTES DO GRUPO:	JOÃO PEDRO LIMA LUSTOSA AMORIM
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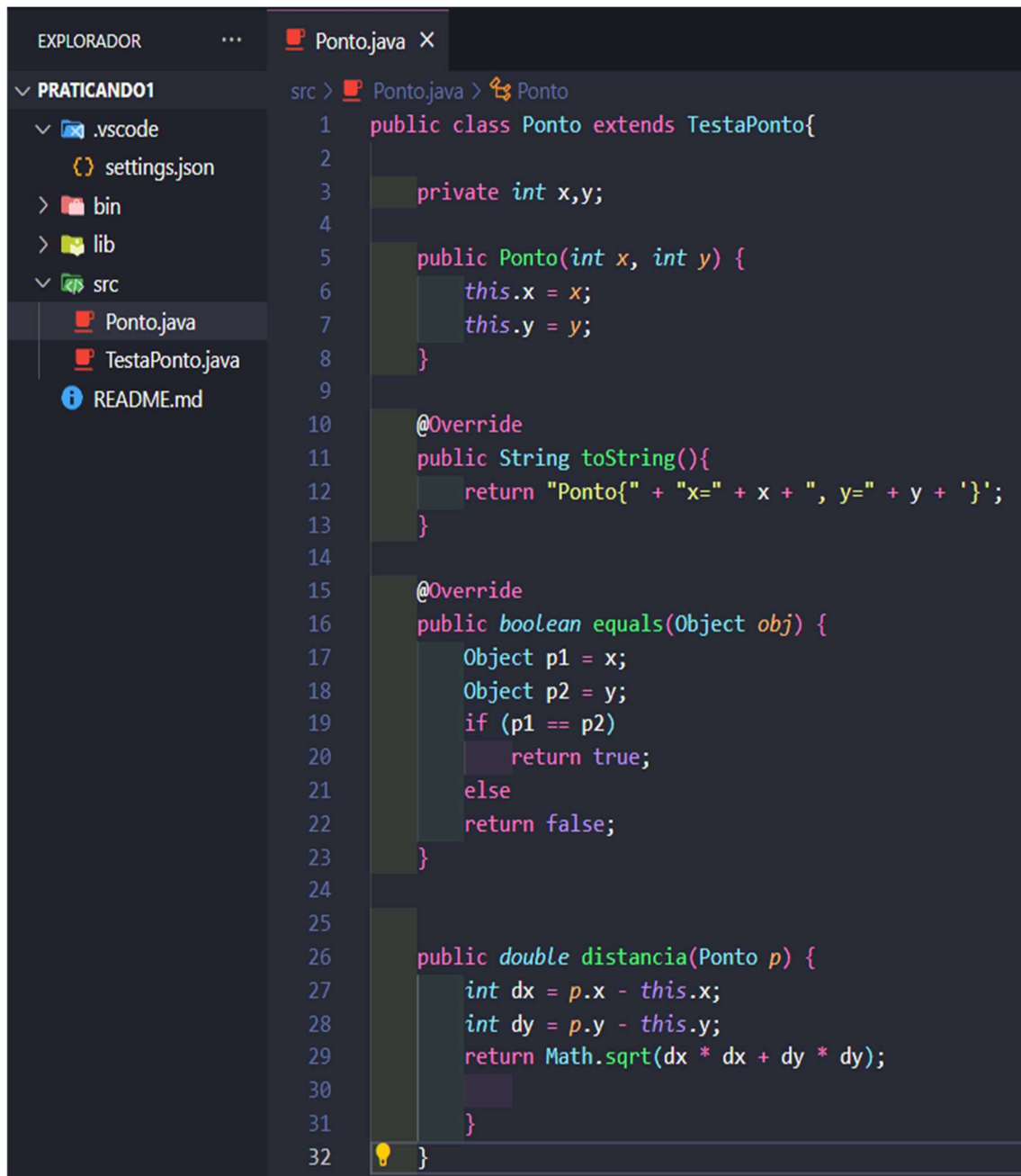
The screenshot shows the Visual Studio Code editor with the file explorer on the left and the editor window on the right. The file explorer shows the project structure for 'PRATICANDO1', including folders like '.vscode', 'bin', 'lib', and 'src'. The 'src' folder contains 'Ponto.java' and 'TestaPonto.java'. The editor window shows the code for 'TestaPonto.java' with line numbers 1 through 12. The code defines a 'Ponto' class and a 'TestaPonto' class with a 'main' method. The 'main' method creates two 'Ponto' objects, 'p1' and 'p2', and prints their details and the distance between them.

```
1 public class TestaPonto {
2
3     Run | Debug
4     public static void main(String[] args){
5         Ponto p1 = new Ponto(x:1,y:2);
6         Ponto p2 = new Ponto(x:4,y:6);
7         System.out.println("p1=>" + p1);
8         System.out.println("p2=>" + p2);
9         System.out.println(("iguais=>" + p1.equals(p2)));
10        System.out.println("distancias=>" + p1.distancia(p2));
11    }
12 }
```



The screenshot shows the Visual Studio Code editor with the file explorer on the left and the terminal window on the right. The file explorer shows the project structure for 'PRATICANDO1'. The terminal window shows the command to run the 'TestaPonto' class and the output of the program. The output shows the details of the 'p1' and 'p2' objects, the result of the 'equals' method, and the distance between them.

```
PS C:\Users\jplla\OneDrive\Área de Trabalho\ADS\Faculdade\Cadeiras\3º SEMESTRE\PROGRAMAÇÃO DE SISTEMAS II\AULA 01\Praticando1> & 'C:\Program Files\Java\jre1.8.0_421\bin\java.exe' -tlib:jdp=transport=dt_socket,server=n,suspend=y,address=localhost:62151' -cp 'C:\Users\jplla\OneDrive\Área de Trabalho\ADS\Faculdade\Cadeiras\3º SEMESTRE\PROGRAMAÇÃO DE SISTEMAS II\AULA 01\Praticando1\bin' 'TestaPonto'
p1=>Ponto{x=1, y=2}
p2=>Ponto{x=4, y=6}
iguais=>false
distancias=>5.0
PS C:\Users\jplla\OneDrive\Área de Trabalho\ADS\Faculdade\Cadeiras\3º SEMESTRE\PROGRAMAÇÃO DE SISTEMAS II\AULA 01\Praticando1> █
```



```
1 public class Ponto extends TestaPonto{
2
3     private int x,y;
4
5     public Ponto(int x, int y) {
6         this.x = x;
7         this.y = y;
8     }
9
10    @Override
11    public String toString(){
12        return "Ponto{" + "x=" + x + ", y=" + y + '}';
13    }
14
15    @Override
16    public boolean equals(Object obj) {
17        Object p1 = x;
18        Object p2 = y;
19        if (p1 == p2)
20            return true;
21        else
22            return false;
23    }
24
25
26    public double distancia(Ponto p) {
27        int dx = p.x - this.x;
28        int dy = p.y - this.y;
29        return Math.sqrt(dx * dx + dy * dy);
30    }
31 }
32 }
```