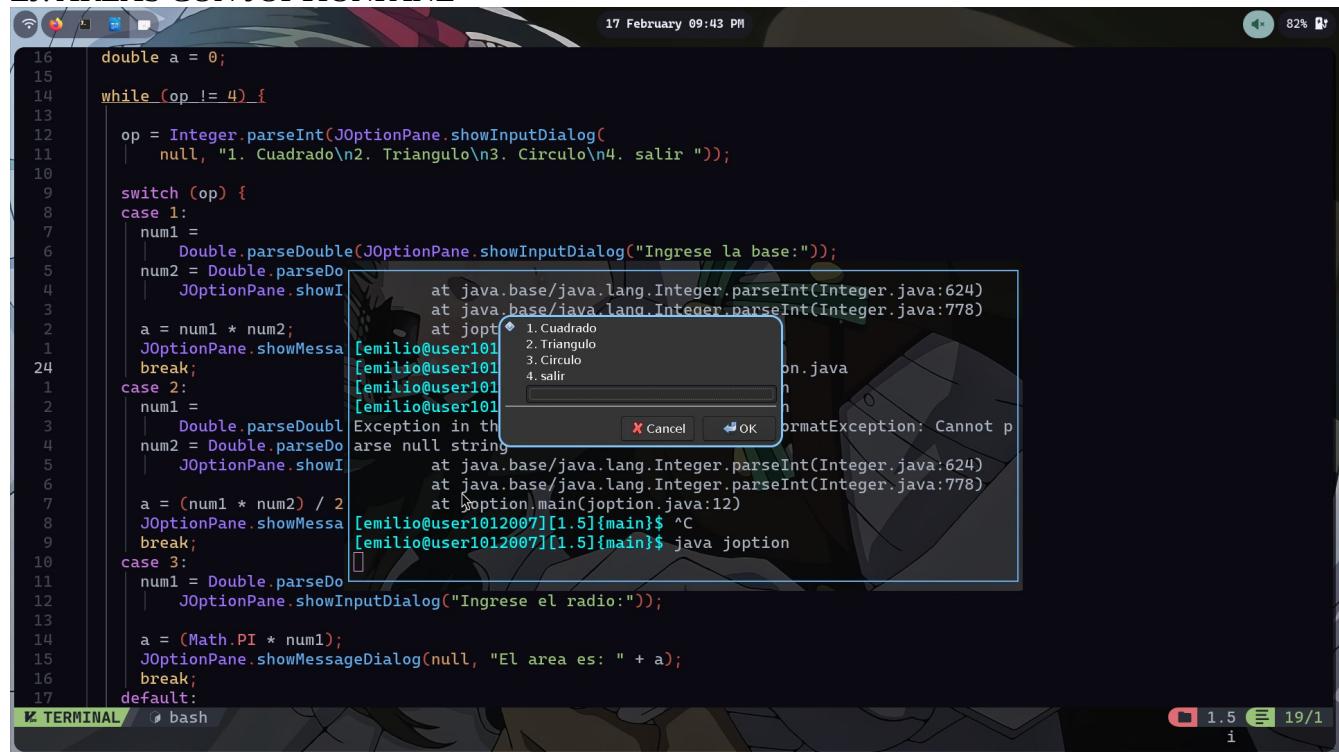


# ROJAS BADILLO EMILIO

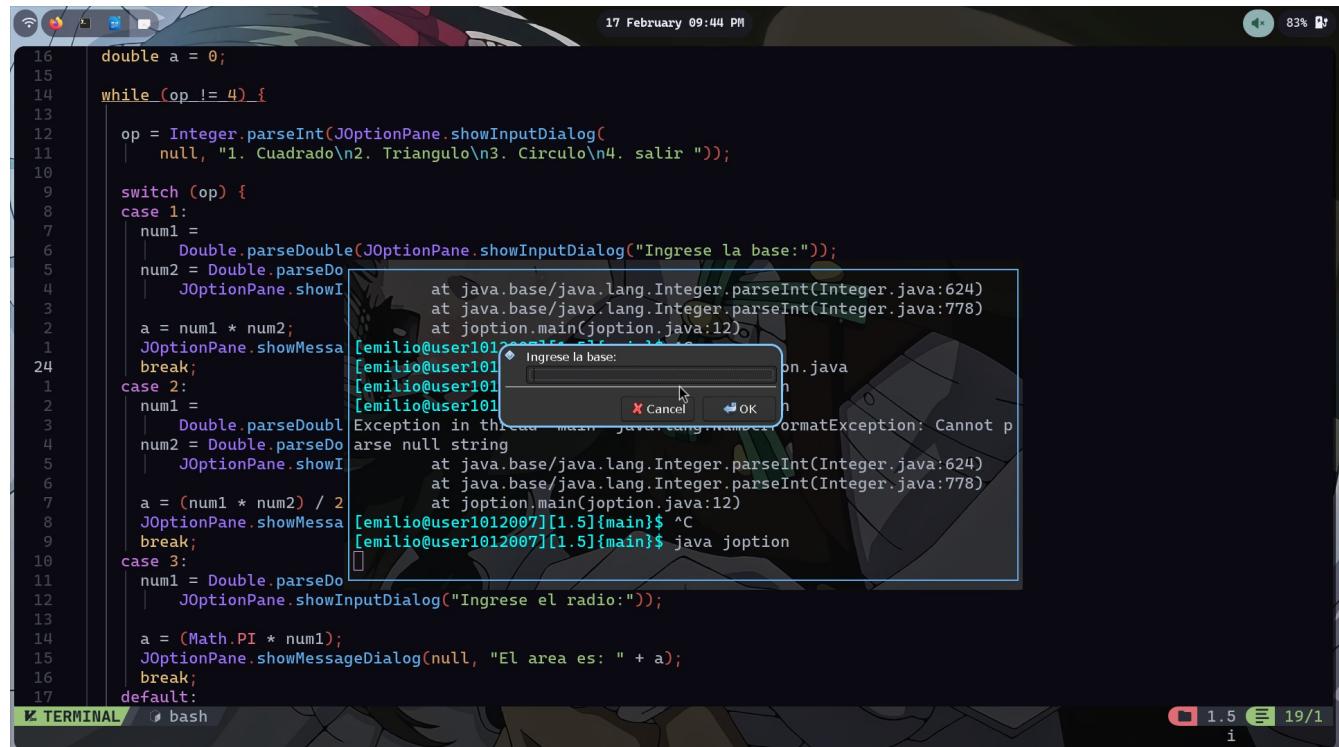
## EJ. AREAS CON JOPTIONPANE



A screenshot of a Java application window titled "joption". The code in the editor is a Java program that uses a `JOptionPane` to allow the user to choose between calculating the area of a square, triangle, or circle, or exiting. A `JOptionPane` menu dialog is displayed, listing the options: 1. Cuadrado, 2. Triangulo, 3. Circulo, and 4. Salir. The "Cuadrado" option is highlighted.

```
16 double a = 0;
15
14 while (op != 4) {
13
12     op = Integer.parseInt(JOptionPane.showInputDialog(
11         null, "1. Cuadrado\n2. Triangulo\n3. Circulo\n4. salir "));
10
9     switch (op) {
8         case 1:
7             num1 =
6                 Double.parseDouble(JOptionPane.showInputDialog("Ingrese la base:"));
5             num2 = Double.parseDouble(
4                 JOptionPane.showInputD
3
2             a = num1 * num2;
1             JOptionPane.showMessageDialog(null, "El area es: " + a);
0         break;
        case 2:
            num1 =
                Double.parseDouble(JOptionPane.showInputDialog("Ingrese la base:"));
            num2 = Double.parseDouble(
                JOptionPane.showInputD
6
5             a = (num1 * num2) / 2;
4             JOptionPane.showMessageDialog(null, "El area es: " + a);
3             break;
        case 3:
            num1 = Double.parseDouble(
                JOptionPane.showInputDialog("Ingrese el radio:"));
2
1             a = (Math.PI * num1);
0             JOptionPane.showMessageDialog(null, "El area es: " + a);
            break;
        default:
    }
}
17
```

K TERMINAL bash

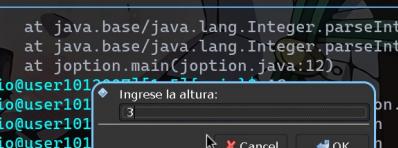


A screenshot of a Java application window titled "joption". The code in the editor is the same Java program as the previous screenshot, but it is currently executing the first iteration of the loop. A `JOptionPane` input dialog is displayed, asking the user to "Ingrese la base:" (Enter the base:). The cursor is positioned inside the input field.

```
16 double a = 0;
15
14 while (op != 4) {
13
12     op = Integer.parseInt(JOptionPane.showInputDialog(
11         null, "1. Cuadrado\n2. Triangulo\n3. Circulo\n4. salir "));
10
9     switch (op) {
8         case 1:
7             num1 =
6                 Double.parseDouble(JOptionPane.showInputDialog("Ingrese la base:"));
5             num2 = Double.parseDouble(
4                 JOptionPane.showInputD
3
2             a = num1 * num2;
1             JOptionPane.showMessageDialog(null, "El area es: " + a);
0         break;
        case 2:
            num1 =
                Double.parseDouble(JOptionPane.showInputDialog("Ingrese la base:"));
            num2 = Double.parseDouble(
                JOptionPane.showInputD
6
5             a = (num1 * num2) / 2;
4             JOptionPane.showMessageDialog(null, "El area es: " + a);
3             break;
        case 3:
            num1 = Double.parseDouble(
                JOptionPane.showInputDialog("Ingrese el radio:"));
2
1             a = (Math.PI * num1);
0             JOptionPane.showMessageDialog(null, "El area es: " + a);
            break;
        default:
    }
}
17
```

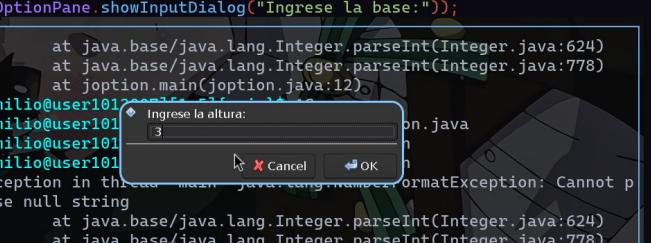
K TERMINAL bash

```
16 double a = 0;
17
18 while (op != 4) {
19
20     op = Integer.parseInt(JOptionPane.showInputDialog(
21         null, "1. Cuadrado\n2. Triangulo\n3. Circulo\n4. salir "));
22
23     switch (op) {
24         case 1:
25             num1 =
26                 Double.parseDouble(JOptionPane.showInputDialog("Ingrese la base:"));
27             num2 = Double.parseDouble(
28                 JOptionPane.showInputDialog("Ingrese la altura:"));
29
30             a = num1 * num2;
31             JOptionPane.showMessageDialog(null, "El area es: " + a);
32             break;
33         case 2:
34             num1 =
35                 Double.parseDouble(JOptionPane.showInputDialog("Ingrese el radio:"));
36             num2 = Double.parseDouble(
37                 JOptionPane.showInputDialog("Ingrese el radio:"));
38
39             a = (num1 * num2) / 2;
40             JOptionPane.showMessageDialog(null, "El area es: " + a);
41             break;
42         case 3:
43             num1 = Double.parseDouble(
44                 JOptionPane.showInputDialog("Ingrese el radio:"));
45
46             a = (Math.PI * num1);
47             JOptionPane.showMessageDialog(null, "El area es: " + a);
48             break;
49         default:
```



```
at java.base/java.lang.Integer.parseInt(Integer.java:624)
at java.base/java.lang.Integer.parseInt(Integer.java:778)
at joption.main(joption.java:12)
[emilio@user101 ~]$ java joption
Ingresar la altura:
3
Exception in thread "main" java.lang.NumberFormatException: Cannot parse null string
at java.base/java.lang.Integer.parseInt(Integer.java:624)
at java.base/java.lang.Integer.parseInt(Integer.java:778)
at joption.main(joption.java:12)
[emilio@user101 ~]$ ^C
[emilio@user101 ~]$ java joption
```

```
16 double a = 0;
17
18 while (op != 4) {
19
20     op = Integer.parseInt(JOptionPane.showInputDialog(
21         null, "1. Cuadrado\n2. Triangulo\n3. Circulo\n4. salir "));
22
23     switch (op) {
24         case 1:
25             num1 =
26                 Double.parseDouble(JOptionPane.showInputDialog("Ingrese la base:"));
27             num2 = Double.parseDouble(
28                 JOptionPane.showInputDialog("Ingrese la altura:"));
29
30             a = num1 * num2;
31             JOptionPane.showMessageDialog(null, "El area es: " + a);
32             break;
33
34         case 2:
35             num1 =
36                 Double.parseDouble(JOptionPane.showInputDialog("Ingrese la base:"));
37             num2 = Double.parseDouble(
38                 JOptionPane.showInputDialog("Ingrese la altura:"));
39
40             a = (num1 * num2) / 2;
41             JOptionPane.showMessageDialog(null, "El area es: " + a);
42             break;
43
44         case 3:
45             num1 = Double.parseDouble(
46                 JOptionPane.showInputDialog("Ingrese el radio:"));
47
48             a = (Math.PI * num1);
49             JOptionPane.showMessageDialog(null, "El area es: " + a);
50             break;
51
52         default:
```



```
at java.base/java.lang.Integer.parseInt(Integer.java:624)
at java.base/java.lang.Integer.parseInt(Integer.java:778)
at joption.main(joption.java:12)
[emilio@user101 ~]$ 
[emilio@user101 ~]$ 
[emilio@user101 ~]$ 
Exception in thread "main" java.lang.NumberFormatException: Cannot parse null string
at java.base/java.lang.Integer.parseInt(Integer.java:624)
at java.base/java.lang.Integer.parseInt(Integer.java:778)
at joption.main(joption.java:12)
[emilio@user101 ~]$ [1.5]{main}$ ^C
[emilio@user101 ~]$ [1.5]{main}$ java joption
```

A screenshot of a Linux desktop environment showing a Java application window and a terminal window.

The Java application window displays a message dialog asking for the radius ("Ingrese el radio:").

The terminal window shows the following code:

```
16 double a = 0;
15
14 while (op != 4) {
13
12 op = Integer.parseInt(JOptionPane.showInputDialog(
11 | null, "1. Cuadrado\n2. Triangulo\n3. Circulo\n4. salir "));
10
9 switch (op) {
8 case 1:
7 num1 =
6 | Double.parseDouble(JOptionPane.showInputDialog("Ingrese la base:"));
5 num2 = Double.parseDouble(
4 | JOptionPane.showI
3 a = num1 * num2;
2 JOptionPane.showMessa
1 break;
case 2:
num1 =
3 | Double.parseDouble(
4 num2 = Double.parseDouble(
5 | JOptionPane.showI
6 a = (num1 * num2) / 2
7 JOptionPane.showMessa
8 break;
case 3:
num1 = Double.parseDouble(
9 | JOptionPane.showInputDialog("Ingrese el radio:"));
10
11 a = (Math.PI * num1);
12 JOptionPane.showMessageDialog(null, "El area es: " + a);
13 break;
14 default:
15
16
17 }
```

The terminal window also shows the stack trace of a NumberFormatException:

```
at java.base/java.lang.Integer.parseInt(Integer.java:624)
at java.base/java.lang.Integer.parseInt(Integer.java:778)
at joption.main(joption.java:12)
[emilio@user1012007][1.5]{main}$ ^C
[emilio@user1012007][1.5]{main}$ java joption
```

A screenshot of a Linux desktop environment showing a Java application window and a terminal window.

The Java application window displays a message dialog showing the calculated area ("El area es: 12.566370614359172").

The terminal window shows the same code as the previous screenshot, with the output of the application's message dialog.

```
16 double a = 0;
15
14 while (op != 4) {
13
12 op = Integer.parseInt(JOptionPane.showInputDialog(
11 | null, "1. Cuadrado\n2. Triangulo\n3. Circulo\n4. salir "));
10
9 switch (op) {
8 case 1:
7 num1 =
6 | Double.parseDouble(JOptionPane.showInputDialog("Ingrese la base:"));
5 num2 = Double.parseDouble(
4 | JOptionPane.showI
3 a = num1 * num2;
2 JOptionPane.showMessa
1 break;
case 2:
num1 =
3 | Double.parseDouble(
4 num2 = Double.parseDouble(
5 | JOptionPane.showI
6 a = (num1 * num2) / 2
7 JOptionPane.showMessa
8 break;
case 3:
num1 = Double.parseDouble(
9 | JOptionPane.showInputDialog("Ingrese el radio:"));
10
11 a = (Math.PI * num1);
12 JOptionPane.showMessageDialog(null, "El area es: " + a);
13 break;
14 default:
15
16
17 }
```

The terminal window also shows the stack trace of a NumberFormatException:

```
at java.base/java.lang.Integer.parseInt(Integer.java:624)
at java.base/java.lang.Integer.parseInt(Integer.java:778)
at joption.main(joption.java:12)
[emilio@user1012007][1.5]{main}$ ^C
[emilio@user1012007][1.5]{main}$ java joption
```