



Fundamentos de Java

Parte 9

Presenta

Alan Badillo Salas

Marzo 2023

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

```
    File myFile = new File("C:\\not_exists.txt");
```

```
}
```



```

8  File myFile = new File("C:\\not_exists.txt");
9
0
1

```

- 💡 Add import for java.io.File
- 💡 Create class "File" in package learn (Source Packages)
- 💡 Create class "File" with constructor (java.lang.String)" in package learn (Source Packages)
- 💡 Create class "File" in learn.LearnErrorHandling_001
- 💡 Create class "File" in learn.LearnErrorHandling_001
- 💡 Remove unused "myFile" >
- 💡 Split into declaration and assignment >

```
import java.io.File;
```

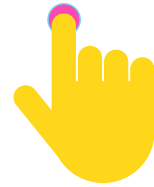
```
public class LearnErrorHandling_001 {
```

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

```
        File myFile = new File(pathname:"C:\\\\not_exists.txt");
```

```
    }
```

```
}
```



```
import java.io.File;
```

```
public class LearnErrorHandling_001 {
```

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

```
        File myFile = new File(pathname:"C:\\not_exists.txt");
```

```
        Scanner scanner = new Scanner(file);
```

- 💡 Add import for java.util.Scanner
- 💡 Create class "Scanner" in package learn (Place Packages)
- 💡 Create class "Scanner" in learn.LearnErrorHandling_001
- 💡 Remove unused "scanner" >
- 💡 Split into declaration and assignment >

```
}
```

```
import java.io.File;
import java.util.Scanner;

public class LearnErrorHandling_001 {


    public static void main(String[] args) {

        File myFile = new File(pathname:"C:\\\\not_exists.txt");

        Scanner scanner = new Scanner(source: file);

    }

}
```



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

```
    File myFile = new File(pathname: "C:\\\\not_
```

cannot find symbol
symbol: variable file
location: class LearnErrorHandling_001

Explicit type can be replaced with 'var'

(Alt-Enter shows hints)

```
Scanner scanner = new Scanner(source: file);
```

```
}
```



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

```
    File myFile = new File(pathname: "C:\\not
```

unreported exception FileNotFoundException; must be caught or declared to be thrown

Explicit type can be replaced with 'var'

(Alt-Enter shows hints)

```
    Scanner scanner = new Scanner(source: myFile);
```

```
}
```




```


8      public static void main(String[] args) {
9
10         File myFile = new File(pathname: "C:\\not_exists.txt");
11
12         Scanner scanner = new Scanner(source: myFile);
13
14
15
16     }
17


```


- ⚡ Add throws clause for java.io.FileNotFoundException
- 💡 Surround Statement with try-catch
- 💡 Surround Block with try-catch
- 💡 Remove unused "scanner" >
- 💡 Replace explicit type with var >
- 💡 Split into declaration and assignment >



3
4
5
6
7


Scanner
scanner


 Add throws clause for java.io.FileNotFoundException


 Surround Statement with try-catch

 Surround Block with try-catch

 Remove unused "scanner"

 Replace explicit type with var

 Split into declaration and assignment

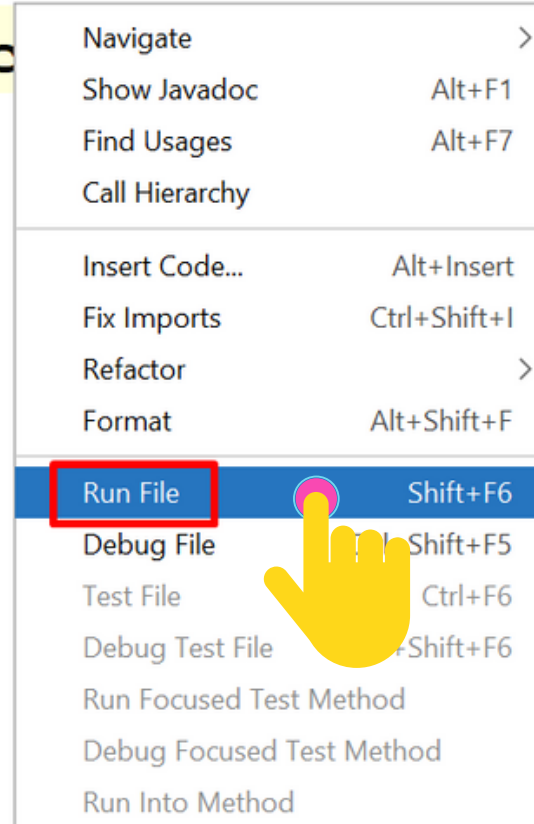


```
public static void main(String[] args) throws FileNotFoundException {
    File myFile = new File(pathname: "C:\\not_exists.txt");
    Scanner scanner = new Scanner(source: myFile);
}
```

UNHANDLED ERROR REPORTED



```
public static void main(String[] args) throws FileNotFoundException {  
  
    File myFile = new File(pathname: "C:\\\\not_exists.txt");  
  
    Scanner scanner = new Scanner(myFile);  
  
}
```





run:

Exception in thread "main" java.io.FileNotFoundException: C:\not_exists.txt (El sistema no puede encontrar el archivo especificado)

at java.base/java.io.FileInputStream.open0(Native Method)

at java.base/java.io.FileInputStream.open([FileInputStream.java:219](#))

at java.base/java.io.FileInputStream.<init>([FileInputStream.java:158](#))

at java.base/java.util.Scanner.<init>([Scanner.java:641](#))

at learn.LearnErrorHandling_001.main([LearnErrorHandling_001.java:13](#))

[C:\Users\drago\AppData\Local\NetBeans\Cache\17\executor-snippets\run.xml:111](#): The following error occurred while executing this line:

[C:\Users\drago\AppData\Local\NetBeans\Cache\17\executor-snippets\run.xml:68](#): Java returned: 1

BUILD FAILED (total time: 0 seconds)



```

public static void main(String[] args) throws FileNotFoundException {
    File myFile = new File(pathname:"C:\\not_exists.txt");
    Scanner scanner = new Scanner(source: myFile);
}

```

DELETE



```

9      public static void main(String[] args) {
10
11          File myFile = new File(pathname: "C:\\not_exists.txt");
12
13          Scanner scanner = new Scanner(source: myFile);
14
15          Add throws clause for java.io.FileNotFoundException
16          Surround Statement with try-catch
17          Surround Block with try-catch
18          Remove unused "scanner"
  
```

```
import java.io.File;
import java.io.FileNotFoundException;
import java.util.Scanner;
import java.util.logging.Level;
import java.util.logging.Logger;

public class LearnErrorHandling_001 {

    public static void main(String[] args) {

        File myFile = new File(pathname: "C:\\\\not_exists.txt");

        try {
            Scanner scanner = new Scanner(source: myFile);
        } catch (FileNotFoundException ex) {
            Logger.getLogger(LearnErrorHandling_001.class.getName()).log(level:
        }

    }

}
```




```

public static void main(String[] args) {

    File myFile = new File(pathname: "C:\\not_exists.txt");

    try {
        Scanner scanner = new Scanner(source: myFile);
    } catch (FileNotFoundException ex) {
        System.out.println(x: "FILE NOT FOUND!!!!");
    }

}

```



```
run:
```

```
FILE NOT FOUND!!!!
```

```
BUILD SUCCESSFUL (total time: 0 seconds)
```



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

    int a, b;

    Scanner scanner = new Scanner(source: System.in);

    System.out.print(s: "Give me A: ");
    a = scanner.nextInt();

    System.out.print(s: "Give me B: ");
    b = scanner.nextInt();

    int result = a / b;

    System.out.printf(format: "A / B = %d %n", args: result);

}
```





run:

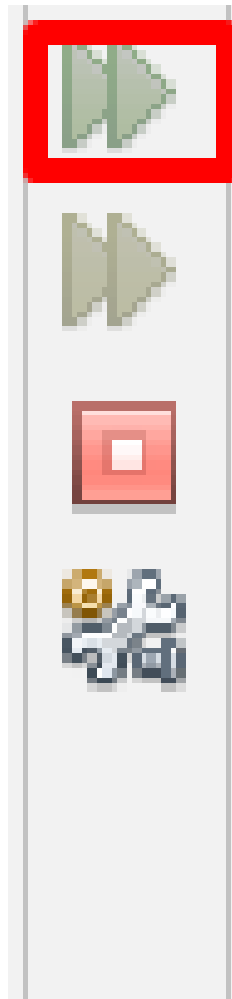
Give me A: 15

Give me B: 3

A / B = 5

BUILD SUCCESSFUL (total time: 6 seconds)

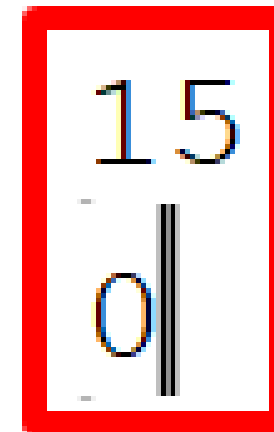




run:

Give me A: 15

Give me B: 0



```
run:
```

```
Give me A: 15
```

```
Give me B: 0
```

```
Exception in thread "main" java.lang.ArithmeticException: / by zero
    at learn.LearnErrorHandling_002.main(LearnErrorHandling_002.java:17)
    at C:\Users\drago\AppData\Local\NetBeans\Cache\17\executor-snippets\run.xml:33:
    at C:\Users\drago\AppData\Local\NetBeans\Cache\17\executor-snippets\run.xml:33:
```

```
BUILD FAILED (total time: 25 seconds)
```



```

public static void main(String[] args) {

    int a, b;

    Scanner scanner = new Scanner(source: System.in);


    System.out.print(s: "Give me A: ");
    a = scanner.nextInt();

    System.out.print(s: "Give me B: ");
    b = scanner.nextInt();

    try {
        int result = a / b;
        System.out.printf(format: "A / B = %d %n", args: result);
    } catch (ArithmeticException ex) {
        System.out.println(x: "DIVISION ERROR!!!!");
    }

}

```



run:

Give me A: 10

Give me B: 0

DIVISION ERROR!!!!

BUILD SUCCESSFUL (total time: 5 seconds)


```

try {
    int result = a / b;
    System.out.printf(format: "A / B = %d %n", args: result);
} catch (ArithmeticException ex) {
    System.out.println(x: "DIVISION ERROR!!!!");
} catch (Exception ex) {
    System.out.println(x: "ERROR!!!!");
    System.out.println(x: ex.getMessage());
}

```

