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# TEXT AND BINARY FILES

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# TOPICS - WORKING WITH FILE 1/0

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A PACKAGE FOR WORKING WITH DIRECTORIES

**AND FILES** 





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# IMPORTANT FILE I/O TYPES FILE I/O CLASSES AND INTERFACES PATH PATHS FILE FILES

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- getFileName()
- getParent()getRoot()

toAbsolutePath()













#### METHODS OF THE FILES CLASS RAND

- exists(Path)
- isReadable(Path)
  - isWritable(Path)
  - isDirectory(Path)
  - size(Path)
  - createFile(Path)
  - createDirectory(Path)delete(Path)









# CODE THAT CREATES A DIRECTORY IF IT DOESN'T ALREADY EXIST

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```
String dirString = "c:/murach/java/files";
Path dirPath = Paths.get(dirString);
if (Files.notExists(dirPath)) {
    Files.createDirectories(dirPath);
}
```





















#### **CODE THAT CREATES A FILE IF IT DOESN'T ALREADY EXIST**

```
String fileString = "products.txt";
Path filePath = Paths.get(dirString, fileString);
if (Files.notExists(filePath)) {
    Files.createFile(filePath);
```







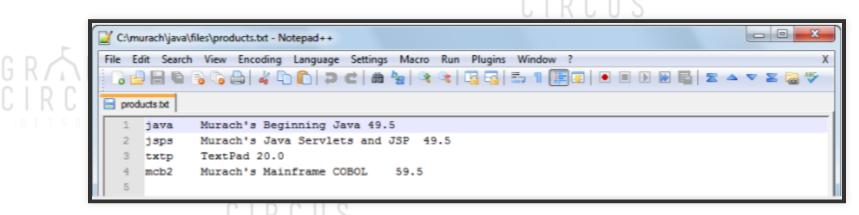








#### A TEXT FILE THAT'S OPENED BY A TEXT EDITOR







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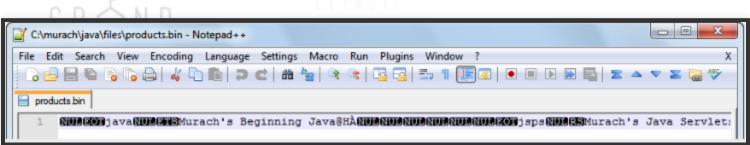








# A BINARY FILE THAT'S OPENED BY A TEXT EDITOR























## WRITE DATA TO THE FILE

```
File productsFile = new File ("products.txt");
try {
    PrintWriter out = new PrintWriter(new FileOutputStream(
                    productsFile,true)); // append = true
    out.println("Hello World!");
        out.close();
catch (IOException e)
    System.out.println(e);
```















# READ DATA FROM THE FILE

```
File productsFile = new File ("products.txt");
try {
    FileReader r = new FileReader(productsFile);
    BufferedReader in = new BufferedReader(r);
```

















READ DATA FROM THE FILE(CONTINUE)

```
String line = in.readLine();
while (line != null)
{
         System.out.println(line);
         line = in.readLine();
}
        in.close();
} catch (IOException e) {
        System.out.println(e);
}
```





























EOFExceptionFileNotFoundException















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#### **RECAP**

#### WHAT YOU SHOULD KNOW AT THIS POINT

- Know File I/O Java classes
- Know the functions of the different File I/O classes
- Using File I/O classes to get information about files and directories
- Know file types and the differences between them
- How to write and read from files