

Output to Files

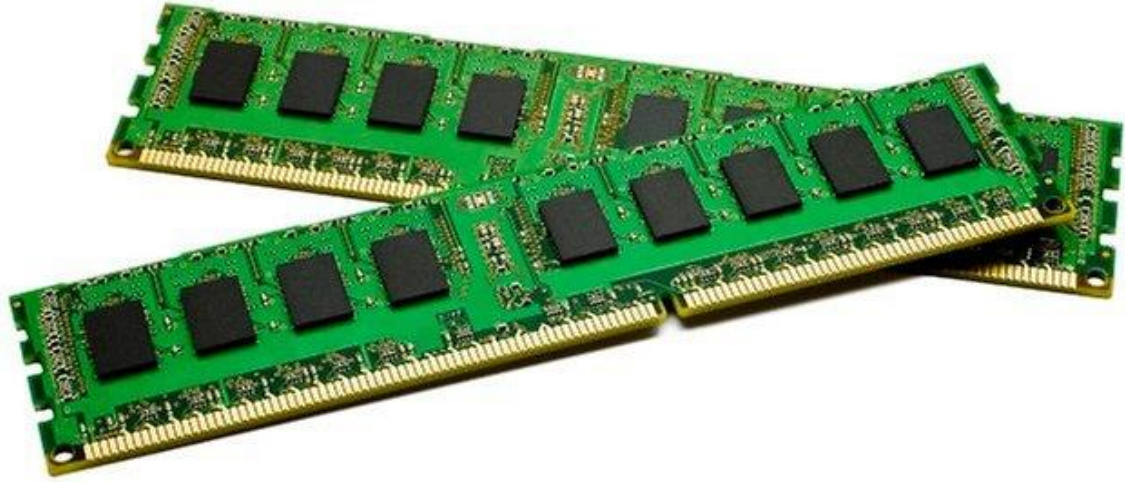
PrintWriter

GILDAN
Ultra Cotton

programmer joke:

!false

It's funny
because it's true



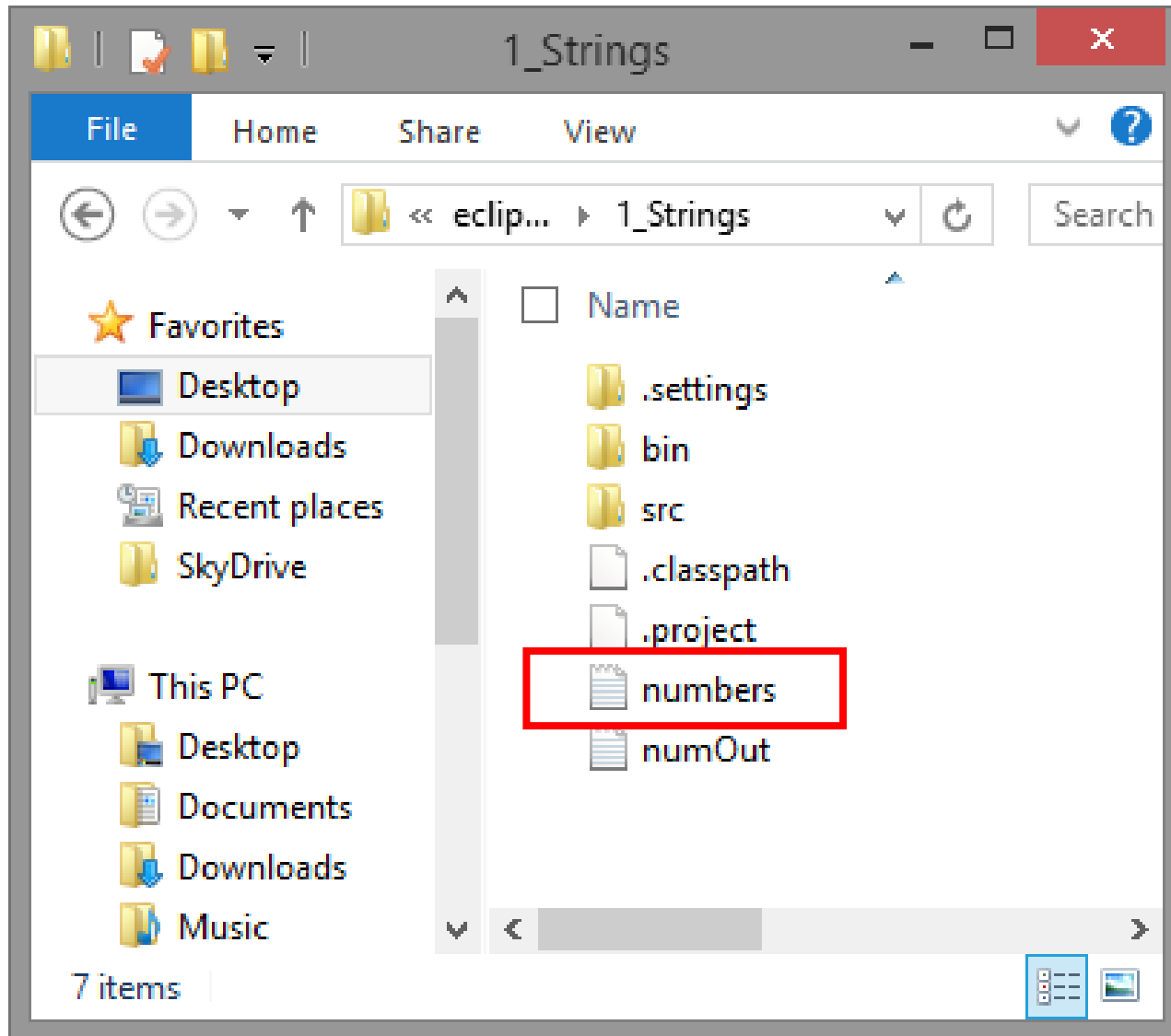
Temporary
Fast (close to CPU)

Variables
“Open” things



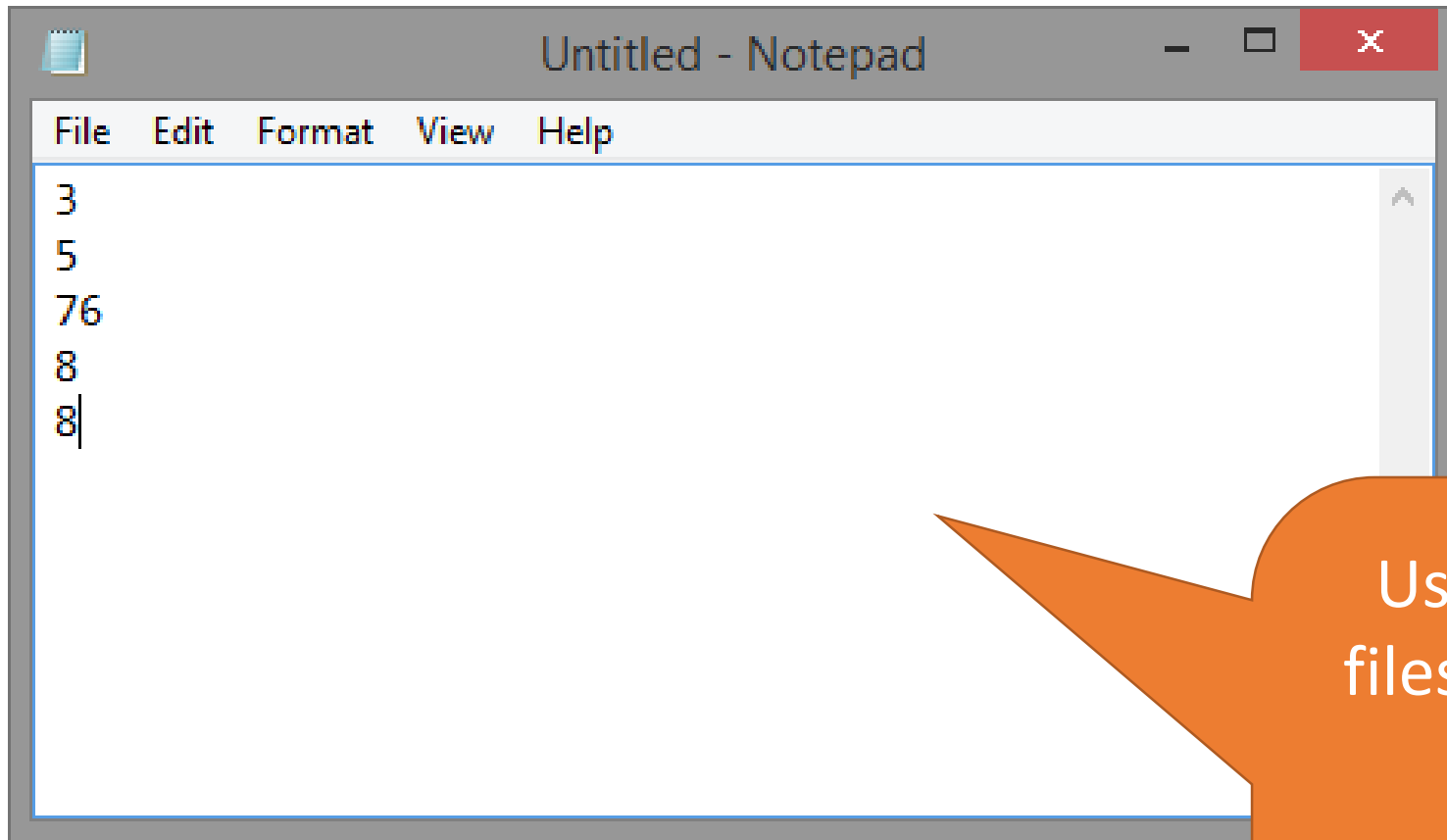
Permanent
Slow (far from CPU)

Files
“Saved” things



Where do the files need to be stored?

Inside the project folder, inside your workspace.



Use Notepad to make the files, then store them in the right folder.

Ready to Program does this too if you save it as a .txt instead of .java.

Printing to files
works exactly like
System.out
Same Commands.

```
print  
println  
\t  
\n  
\"  
\\
```



```
try {  
    //File code here  
}  
catch (IOException e) {  
    System.out.println ("File error " + e);  
}
```

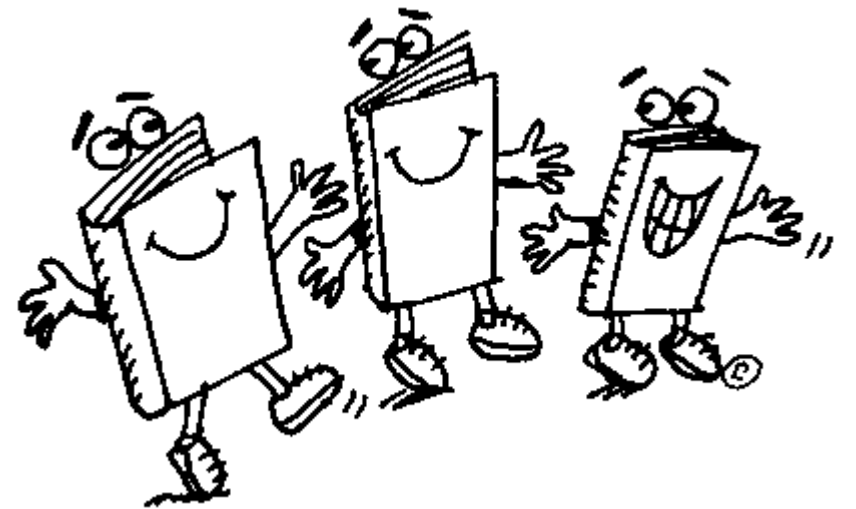
Files REQUIRE a
try/catch.

They are external to the program, so as
a programmer we can't trust they will
actually be where we hope they are.

Files are from the io library.

```
import java.io.*;  
PrintWriter out;
```

The file object is a
“PrintWriter”




```
import java.io.*;
public class printOut {
    public static void main (String args[]) {
        new printOut ();
    }

    public printOut () {
        PrintWriter out;
        try {
            out = new PrintWriter (new FileWriter ("numOut.txt"));
            for (int i = 0 ; i < 10 ; i++) {
                out.println(i);
            }
            out.close ();
        }
        catch (IOException e) {
            System.out.println ("Error opening file " + e);
        }
    }
}
```

Import the right library

```
import java.io.*;
public class printOut {
    public static void main (String args[]) {
        new printOut ();
    }

    public printOut () {
        PrintWriter out;
        try {
            out = new PrintWriter (new FileWriter ("numOut.txt"));
            for (int i = 0 ; i < 10 ; i++) {
                out.println(i);
            }
            out.close ();
        }
        catch (IOException e) {
            System.out.println ("Error opening file " + e);
        }
    }
}
```

```
import java.io.*;
```

```
public class printOut {
```

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

```
        new printOut ();
```

```
    }
```

```
public printOut () {
```

```
    PrintWriter out;
```

```
    try {
```

```
        out = new PrintWriter (new FileWriter ("numOut.txt"));
```

```
        for (int i = 0 ; i < 10 ; i++) {
```

```
            out.println(i);
```

```
        }
```

```
        out.close ();
```

```
    }
```

```
    catch (IOException e) {
```

```
        System.out.println ("Error opening file " + e);
```

```
    }
```

```
}
```

```
}
```

Import the right library

Open a Print Writer.
Like System.out.

```
import java.io.*;
```

```
public class printOut {
```

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

```
        new printOut ();
```

```
    }
```

```
    public printOut () {
```

```
        PrintWriter out;
```

```
        try {
```

```
            out = new PrintWriter (new FileWriter ("numOut.txt"));
```

```
            for (int i = 0 ; i < 10 ; i++) {
```

```
                out.println(i);
```

```
            }
```

```
            out.close ();
```

```
        }
```

```
        catch (IOException e) {
```

```
            System.out.println ("Error opening file " + e);
```

```
        }
```

```
    }
```

```
}
```

Import the right library

Open a Print Writer.
Like System.out.

Send in the file name.

```
import java.io.*;
```

```
public class printOut {
```

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

```
        new printOut ();
```

```
    }
```

```
    public printOut () {
```

```
        PrintWriter out;
```

```
        try {
```

```
            out = new PrintWriter (new FileWriter ("numOut.txt"));
```

```
            for (int i = 0 ; i < 10 ; i++) {
```

```
                out.println(i);
```

```
            }
```

```
            out.close ();
```

```
        }
```

```
        catch (IOException e) {
```

```
            System.out.println ("Error opening file " + e);
```

```
        }
```

```
    }
```

```
}
```

Import the right library

Open a Print Writer.
Like System.out.

Send in the file name.

Print out what you want.

```
import java.io.*;
```

Import the right library

```
public class printOut {
```

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

```
        new printOut ();
```

```
    }
```

Open a Print Writer.
Like System.out.

```
public printOut () {
```

```
    PrintWriter out;
```

```
    try {
```

```
        out = new PrintWriter (new FileWriter ("numOut.txt"));
```

```
        for (int i = 0 ; i < 10 ; i++) {
```

```
            out.println(i);
```

```
        }
```

```
        out.close ();
```

```
    }
```

```
    catch (IOException e) {
```

```
        System.out.println ("Error opening file " + e);
```

```
    }
```

```
}
```

```
}
```

Send in the file name.

Print out what you want.

Close the file.