LET'S THINK FOR A BIT ABOUT HOW EXCEPTIONS ARE HANDLED

(THIS EXAMPLE IS FROM JAVA, BUT PRETTY MUCH ALL LANGUAGES DO IT THIS WAY)

LET'S SAY THERE IS A METHOD, WHERE THINGS CAN GO WRONG

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IN FACT THINGS CAN GO WRONG IN 2 SPECIFIC WAYS -

THEN - ANY CODE CALLING THIS METHOD MUST EITHER "CATCH" THESE EXCEPTIONS, OR MUST ANNOUNCE THAT IT TOO MIGHT THROW THE EXCEPTION

THE CODE INSIDE THE FUNCTION
COULD LEAD TO 2 TYPES OF
EXCEPTIONS BEING THROWN,
SO THE FUNCTION VERY
HELPFULLY CALLS THIS FACT OUT
IN ITS SIGNATURE

THIS METHOD KNOWS HOW
TO HANDLE ONE OUT OF THE TWO
TYPES OF EXCEPTIONS...

AND THIS METHOD IN TURN
IS CALLED BY YET ANOTHER
WHICH KNOWS WHAT TO
DO WITH THE REMAINING
TYPE OF EXCEPTION

```
public static void methodThree(int randomNumber) {
    try {
        methodTwo(randomNumber);
    catch (IOException iox)
        System.out.println("Caught the IO Exception inside methodThree");
    }
}
```

TYPES OF EXCEPTIONS ARE NOW

HANDLED, THE CODE THAT CALLS

THIS METHOD NEED NOT DO

ANYTHING AT ALL
public static void main(String[] args) {
 int randomNumber = (int)Math.ceil(Math.random() * 10);
 methodThree(randomNumber);
}

