

Checked or Unchecked Exceptions

Java is the only language which basically have two types of exceptions: Checked exceptions and unchecked exceptions.

Checked exceptions	Unchecked exceptions
Must be explicitly caught or propagated	Exceptions do not have this requirement. They don't have to be caught or declared thrown
Checked exceptions extend the <code>java.lang.Exception</code>	Unchecked exceptions extend the <code>java.lang.RuntimeException</code>

Example of Checked Exception

```
import java.io.FileNotFoundException;
import java.io.FileReader;
import java.io.IOException;

class ExceptionHandlingBasic {
    public static void main(String []args){
        try {
            System.out.println("In Main method .....");
            new ExceptionHandlingBasic().printLogs();
            System.out.println("Existing Main Method .....");
        } catch (FileNotFoundException e) {
            System.out.println(e.getMessage());
            e.printStackTrace();
        } catch (IOException e) {
            System.out.println(e.getMessage());
            e.printStackTrace();
        }
    }

    public void printLogs() throws FileNotFoundException, IOException{
        System.out.println("loading file .....");
        new ExceptionHandlingBasic().openFile();
        System.out.println("finished reading file .....");
    }

    public void openFile() throws FileNotFoundException, IOException {
```

```

        FileReader reader = new FileReader("/home/neha/java.info/testFile");
// constructor can throw FileNotFoundException
        int i=0;
        while(i != -1){
            //reader.read() may throw IOException
            i = reader.read();
            System.out.print((char) i );
        }
        reader.close();
        System.out.println("--- File End ---");
    }
}

```

Example of UnChecked Exception

```

class UncheckedException {
    public static void main(String []args){
        System.out.println("In Main method .....");
        (new UncheckedException()).divide();
        System.out.println("Existing Main Method .....");
    }
    public int divide(){
        return 10 / 0;
    }
}

```