

Exceptions



Handling Errors in Java
Programs



Exceptions

- When a program violates the semantic constraints of the Java programming language, the Java virtual machine signals this error to the program as an *exception*.
- Or to put it another way, an exception is an event that occurs during the execution of a program that disrupts the normal flow of instructions.



Why We Need Exceptions

- Illustrative Example:

```
readFile {  
    open the file;  
    determine its size;  
    allocate that much memory;  
    read the file into memory;  
    close the file;  
}
```