• THROWS

> Throws Example, And when you hover over the error you get options like below.

```
Search Project Run Window Help
    ' 🗖 👪 Main.java 🗵
                      1 package org.studyeasy;
    naste
                         import java.io.FileReader;
                      5 public class Main {
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    ce [Ja
                                     public static void main(String[] args) {
   Main main = new Main();
   main.doSomething();
    r]
    aste
lemy 10 110 12 12 13 14 15 }
                                      public void doSomething() {
    FileReader in = new FileReader("text.txt");
    System.out.println("Do something");
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                 <terminated > Main (3) [Java Application] C:\\ \ Users \\ \ dinit\\ \ p2\\ \ pool\\ \ plugins\\ \ org. eclipse. justj. openjdk. hotspot. jre. full.win32.x86_64_17.0.2.v20220201-1208\\ \ jre\\ \ bin\\ \ javarden erline e
                                     on in thread "main" java.lang.Error: Unresolved
Unhandled exception type FileNotFoundException
                                      at org.studyeasy.Main.doSomething(Main.java:12) at org.studyeasy.Main.main(Main.java:9)
    earch Project Run Window Help
     Main.java ×
                 1 package org.studyeasy;
    st€
                   import java.io.FileReader;
                 5 public class Main {
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                            public static void main(String[] args) {
   Main main = new Main();
   main.doSomething();
    my 10 public void doSomething() {
    gl2 FileReader in = new FileReader("text.txt").|
    system.out.println(" Unhandled exception type FileNotFoundException
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           <terminated> Main (3) [Java Application] C\Users\dinit\p2\poo\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe (Jan 31, 20)
Exception in thread "main" java.lang.Error: Unresolved compilation problem:
    Unhandled exception type FileNotFoundException
                               at org.studyeasy.Main.doSomething(Main.java:12) at org.studyeasy.Main.main(Main.java:9)
```

Middela Small Inval 12 - 52 - 251

Case 1: Surround with try/catch

```
□ 🔑 Main.java ×
                       1 package org.studyeasy;
                         3@import java.io.FileNotFoundException;
4 import java.io.FileReader;
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e [Ja
                                                 public static void main(String[] args) {
   Main main = new Main();
   main.doSomething();
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 emy 10
                                                  public void doSomething() {
                                                                     blic void doSomething();
try {
   FileReader in = new FileReader("text.txt");
} catch (FileNotFoundException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
}
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                                                                            System.out.println("Do something");
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                                                       ed> Mam (3) Java Application] C. (Usersymmit, Psychocol poligniskon g.eculpse_just), open gk.motsp. 
FileNoForundException: text.txt (The system cannot find the file specified at java.base/java.io.FileInputStream.open(Native Method) at java.base/java.io.FileInputStream. (FileInputStream.java:216) at java.base/java.io.FileInputStream. (init) (FileInputStream.java:157) at java.base/java.io.FileInputStream. (init) (FileInputStream.java:111) at java.base/java.io.FileReader.(init) (FileInputStream.java:111) at java.base/java.io.FileReader.(init) (FileInputStream.java:101) at org.studyeasy.Main.doSomething (Main.java:10) thing
                 Do something
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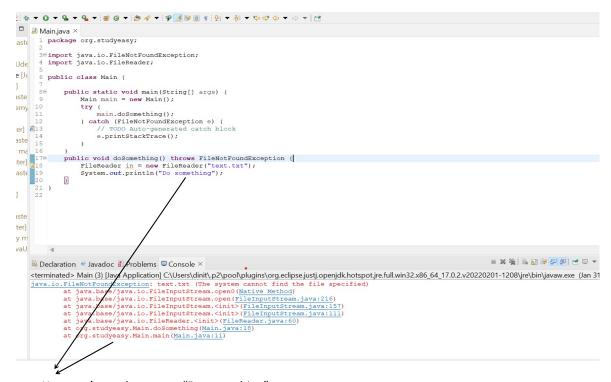
Case 2: Add throws declaration

```
□ 🛮 🗗 Main.java ×
                     1 package org.studyeasy;
                     30 import java.io.FileNotFoundException;
4 import java.io.FileReader;
Jde
· [Ja
                     6 public class Main {
                                               public static void main(String[] args) {
   Main main = new Main();
   main.doSomething();
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           11 }
12* public void doSomething() throws FileNotFoundException {
13 FileReader in = new FileReader("text.txt");
14 System.out.println("Do something");
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ter] 16 }
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```

In Java, the throws keyword is used in the method signature to declare that a method may throw certain exceptions. This keyword is part of the method declaration and is used to indicate that the method might generate exceptions of a particular type during its execution.

```
public void exampleMethod() throws SomeException {
      // Method implementation that may throw SomeException
}
```

- > Throws keyword is used in order to throw an exception.
- > If we you try catch statement in another block like below, then we get output like below.



You won't get the output "Do something"

If you don't know how to handle the exception by yourself and the exception handling will be unique for every case. It is better idea to throw the exception, so whenever the user will use the method, the user have to handle the exception according to the situation.

User is forced to handle the exception as the throws keyword forces it.