

- (ii) → RuntimeException and its child classes, Error and its child classes are unchecked.  
Except these remaining are checked.

→ Fully checked VS partially checked

- A checked exception is said to be fully checked iff all its child classes are also checked.

Ex: -

IOException

InterruptedException

- A checked exception is said to be partially checked iff some of its child classes are unchecked.

Ex: -

(i) Exception.

(ii) Throwable.

NOTE: -

The only possible partial checked exceptions in Java are

(i) Exception

(ii) Throwable.

- Describe the behaviour of following exceptions: -

(i) IOException

→ Fully checked

(ii) RuntimeException

→ Unchecked

(iii) InterruptedException

→ Fully checked

(iv) Error

→ ~~for~~ Unchecked

(v) Throwable

→ partially checked

(vi) ArithmeticException

→ Unchecked

(vii) NullPointerException

→ Unchecked

- (vii) FileNotFoundException. → Fully Checked Exception.
- (ix) Exception → partially Checked

⇒ Customized Exception Handling by Using try-catch

- It is highly recommended to handle the exceptions.
- The code which may raise an exception is called Risky code and we have to define that code inside try block. and corresponding handling code we have to define inside catch block.

```

try
{
    // Risky code
}
catch (Exception e)
{
    // Handling code
}
    
```

<u>without try-catch</u>	<u>with try-catch</u>
<pre> class Test {     psvm(String[] args)     {         s.o.p("stmt 1");         s.o.p(10/0);         s.o.p("stmt 3");     } }                     </pre>	<pre> class Test {     psvm(String[] args)     {         s.o.p("stmt 1");         try         {             s.o.p(10/0);         }         catch (Exception e)         {             s.o.p(10/2);         }         s.o.p("stmt 3");     } }                     </pre>
<p>O/P → stmt 1                      RE: AE: / by zero                      (Abnormal Termination)</p>	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>O/P → stmt 1                          5                          stmt 3</p> </div> <p>(Normal Termination)</p>