

What happens when an exception occurs in a thread in Java?

 Answer  Follow  Request

Ad by Amazon Web Services (AWS) 

Build & train machine learning models fast. Get started for free.

AWS removes the complexity of building, training, and deploying machine learning models at any scale.

 Sign Up

All related (34) 

Sort Recommended 




Urshi Javed · [Follow](#)

5y

In simple words, If not caught thread will die, if an uncaught exception handler is registered then it will get a call back. Thread.UncaughtExceptionHandler is an interface, defined as nested interface for handlers invoked when a Thread abruptly terminates due to an uncaught exception. When a thread is about to terminate due to an uncaught exception the Java Virtual Machine will query the thread for its UncaughtExceptionHandler using Thread.getUncaughtExceptionHandler() and will invoke the handler's uncaughtException() method, passing the thread and the exception as arguments.

 12   

Sponsored by Intellipaat 

PGP in Data Science and Machine Learning.

Become a Data Science & ML professional in 6 months. 100% job guarantee or money-back. T & C Applied.

 Apply Now





Sourav Das · [Follow](#)

Programmer (C, C++, JAVA, Python) at Kolkata, West Bengal, India (2020–present)1y

This is one of the good tricky Java question I have seen on interviews. In simple words, If not caught thread will die, if an uncaught exception handler is registered then it will get a call back. Thread. Uncaught Exception Handler is an interface, defined as nested interface for handlers invoked when a Thread abruptly terminates due to an uncaught exception. When a thread is about to terminate due to an uncaught exception the Java Virtual Machine will query the thread for its Uncaught Exception Handler using Thread.getUncaughtExceptionHandler()

 1   

and will invoke the handler's `uncaughtException()` method, passing the thread and the exception as arguments.

1.1K viewsView 1 upvote



Exception is thrown to `UncaughtExceptionHandler` of thread, If this is not defined then the thread group's handler, if that is not defined too, it goes to the default handler.

We should catch such exceptions as below-:

```
t.setUncaughtExceptionHandler(new Thread.UncaughtExceptionHandler() {
    public void uncaughtException(Thread t, Throwable e) { System.out.println("exception " + e + "
    from thread " + t); }
});
```

where t is Thread instance

Sponsored by Duolingo English Test



Can I certify my English at home with the Duolingo English Test?

No appointments, no test centers. Finish in under 1 hour on your computer and get results in only 2 days.

 [Learn More](#)



Related questions

More answers below

[Can we throw any exception on the Run method of a Java thread?](#)

[What happens when an exception occurs in a thread?](#)

[What will happen if exception occurs in Java finally block?](#)



Singh Amarjeet · [Follow](#)

programming is good6y

stack says :

If

you are talking about unchecked exceptions thrown from `Thread.run` method. By default, you will get sth like this in system error:

```
Exception in thread "Thread-0" java.lang.RuntimeException at  
Main$1.run(Main.java:11) at java.lang.Thread.run(Thread.java:619)
```

This is the result of `printStackTrace` for unhandled exceptions. To handle it, you can add your own `UncaughtExceptionHandler`:

```
Thread t = new Thread(new Runnable(){ public void run() { throw new  
RuntimeException(); } }); t.setUncaughtExceptionHandler(new  
Thread.UncaughtExceptionHandler() { public void  
uncaughtException(Thread t, Throwable e) {  
System.out.println("exception " + e + " from thread " + t); } });  
t.start();
```

To set handler for all threads use a static
method `Thread.setDefaultUncaughtExceptionHandler`