**Example of interrupting a thread that doesn't stop working**

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| --- |
| In this example, after interrupting the thread, we handle the exception, so it will break out the sleeping but will not stop working. |

class TestInterruptingThread2 extends Thread{

public void run(){

try{

Thread.sleep(1000);

System.out.println("task");

}catch(InterruptedException e){

System.out.println("Exception handled "+e);

}

System.out.println("thread is running...");

}

  public static void main(String args[]){

TestInterruptingThread2 t1=new TestInterruptingThread2();

t1.start();

 t1.interrupt();

}

}

Output:Exception handled

java.lang.InterruptedException: sleep interrupted

thread is running...

**Example of interrupting thread that behaves normally**

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| --- |
| If thread is not in sleeping or waiting state, calling the interrupt() method sets the interrupted flag to true that can be used to stop the thread by the java programmer later. |

class TestInterruptingThread3 extends Thread{

public void run(){

for(int i=1;i<=5;i++)

System.out.println(i);

}

public static void main(String args[]){

TestInterruptingThread3 t1=new TestInterruptingThread3();

t1.start();

t1.interrupt();

}

}

Output:1

2

3

4

5

**What about isInterrupted and interrupted method?**

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| --- |
| The isInterrupted() method returns the interrupted flag either true or false. The static interrupted() method returns the interrupted flag after that it sets the flag to false if it is true. |

public class TestInterruptingThread4 extends Thread{

public void run(){

for(int i=1;i<=2;i++){

if(Thread.interrupted()){

System.out.println("code for interrupted thread");

}

else{

System.out.println("code for normal thread");

}

}//end of for loop

}

public static void main(String args[]){

TestInterruptingThread4 t1=new TestInterruptingThread4();

TestInterruptingThread4 t2=new TestInterruptingThread4();

t1.start();

t1.interrupt();

t2.start();

}

}

Output:Code for interrupted thread

code for normal thread

code for normal thread

code for normal thread