|  |  |  |  |
| --- | --- | --- | --- |
| **Experiment Name:** | Thread [Synchronization](https://www.javatpoint.com/synchronization-in-java) | | |
| **Experiment No. :** | 28 | **Date :** | 14.10.24 |
| **Compiler :** | javac | **Filename :** | SynchronizedThreads.java |
| **Aim :** | Write a java program that shows the concept of thread s[ynchronization](https://www.javatpoint.com/synchronization-in-java) | | |
| **PROGRAM:**  class Callable{  public void call(String msg){  try{  System.out.print("[");  System.out.print(msg);  Thread.sleep(1000);  System.out.print("]");  }catch(InterruptedException e){  System.out.println("Callable Thread interrupted");  }  }  // Synchronized Method Approach  //public void synchronized call(String msg){  // try{  // System.out.print("[");  // System.out.print(msg);  // Thread.sleep(1000);  // System.out.print("]");  // }catch(InterruptedException e){  // System.out.println("Callable Thread interrupted");  // }  // }  }  class Caller implements Runnable{  Thread th;  Callable target;  String msg;  Caller(Callable targ,String msg){  target = targ;  this.msg = msg;  th = new Thread(this,msg);  th.start();  }  public void run(){  // synchronized Block  synchronized(target){  target.call(msg);  }  }  }  class SynchronizeThread{  public static void main(String[] args){  Callable traget = new Callable();  Caller cb1 = new Caller(traget,"Hello");  Caller cb2 = new Caller(traget,"Synchronize");  Caller cb3 = new Caller(traget,"World");    }  }  **OUTPUT:** | | | |