Assignment 10

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Code-package Com.College;  
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// Batch: AIML-A1  
  
  
import java.lang.Thread;  
import java.lang.Runnable;  
public class Assignment\_10 implements Runnable {  
 public static void main(String[] args) {  
// Create a new As\_10 object  
 Assignment\_10 example = new Assignment\_10();  
// Create a new thread with the Runnable object  
 Thread thread = new Thread(example);  
// Start the thread  
 thread.start();  
// Call various Thread methods  
 System.*out*.println("-> Main thread starting...");  
 System.*out*.println("-> New thread created: " + thread.getName());  
 System.*out*.println("-> New thread ID: " + thread.getId());  
 System.*out*.println("-> New thread priority: " + thread.getPriority());  
// Sleep for 1 seconds  
 try {  
 System.*out*.println("-> Main thread is sleeping...");  
 Thread.*sleep*(1000);  
 System.*out*.println("-> Main thread is awake!");  
 } catch (InterruptedException e) {  
 e.printStackTrace();  
 }  
// Interrupt the new thread  
 thread.interrupt();  
 System.*out*.println("-> New thread interrupted: " + thread.isInterrupted());  
// Set thread priority to 7  
 thread.setPriority(7);  
 System.*out*.println("-> New thread priority (after setting): " + thread.getPriority());  
// Yield the main thread  
 Thread.*yield*();  
 System.*out*.println("-> Main thread yielded...");  
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 try {  
// Wait for the thread to complete  
 thread.join();  
 System.*out*.println("-> New thread completed.");  
 } catch (InterruptedException e) {  
 e.printStackTrace();  
 }  
 System.*out*.println("-> Main thread ending...");  
 }  
 @Override  
 public void run() {  
// The code that runs in the new thread  
 System.*out*.println("-> New thread is running...");  
// Sleep for 1 seconds  
 try {  
 System.*out*.println("-> New thread is sleeping...");  
 Thread.*sleep*(1000);  
 System.*out*.println("-> New thread is awake!");  
 } catch (InterruptedException e) {  
 e.printStackTrace();  
 }  
 }  
}

Output-Text

Description automatically generated

Github link-<https://github.com/arjuntyagi19/java_assignment>