**MODUL 12 PEMROGRAMAN BERORIENTASI OBJEK**

**CONCURRENCY (THREADING)**

1. **SOURCE CODE**

Seluruh source code pada praktikum ini tersedia di: <https://github.com/afrzl/Pemrograman-Berorientasi-Objek/tree/main/Week%2012/Praktikum/Modul%2012>

1. LatihanThread.java

public class LatihanThread {  
 public static void main(String[] args) {  
 Thread t = new Thread(new Runnable() {  
 @Override  
 public void run() {  
 for (int i = 0; i < 10; i++) {  
 System.*out*.println("Thread t: " + i);  
 }  
 }  
 });  
 t.start();  
  
 Thread t2 = new Thread(new ThreadA());  
 t2.start();  
  
 Thread t3 = new ThreadB();  
 t3.start();  
  
 for (int i = 0; i < 10; i++) {  
 System.*out*.println("Main Thread:" + i);  
 }  
  
  
  
 }  
}

1. ThreadA.java

public class ThreadA implements Runnable {  
 @Override  
 public void run() {  
 for (int i = 0; i < 10; i++) {  
 System.*out*.println("Thread A: " + i);  
 }  
 }  
}

1. ThreadB.java

public class ThreadB extends Thread {  
 @Override  
 public void run() {  
 for (int i = 0; i < 10; i++) {  
 System.*out*.println("Thread B: " + i);  
 }  
 }  
}

1. **OUTPUT**

"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.1.1\lib\idea\_rt.jar=63353:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.1.1\bin" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath "G:\My Drive\00. Tingkat 2\Pemrograman Berorientasi Objek\Week 12\Praktikum\Modul 12\out\production\Modul 12" LatihanThread

Thread A: 0

Thread A: 1

Thread A: 2

Thread t: 0

Thread t: 1

Thread t: 2

Thread t: 3

Thread t: 4

Thread t: 5

Thread t: 6

Thread B: 0

Main Thread:0

Thread A: 3

Thread t: 7

Thread t: 8

Thread t: 9

Thread B: 1

Main Thread:1

Main Thread:2

Main Thread:3

Main Thread:4

Main Thread:5

Thread A: 4

Thread B: 2

Thread B: 3

Main Thread:6

Main Thread:7

Main Thread:8

Main Thread:9

Thread A: 5

Thread A: 6

Thread A: 7

Thread A: 8

Thread A: 9

Thread B: 4

Thread B: 5

Thread B: 6

Thread B: 7

Thread B: 8

Thread B: 9

Process finished with exit code 0