Catedra Calculatoare

Raport

PCD

Lucrarea de laborator nr.2

**Tema: Gruparea firelor de execuție. Modificarea priorității lor.**

Varianta 10

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**1. Tema lucrării:**

Gruparea firelor de execuție. Modificarea priorității lor.

**2.**  **Scopul lucrării:**

* Însuşirea modalităţilor de creare a thread-urlilor în Java;
* Însuşirea metodelor de creare a unui grup de thread-uri;

**Sarcina lucrării:**

|  |  |
| --- | --- |
| 10 | Main{G7{G3{Tha(6), Thb(3), Thc(6), Thd(3)}, ThA(7)},Th1(6), Th2(3), G2{Th1(7), Th2(3), Th3(3)}} |

**Listing-ul programului:**

package company.com;  
  
public class Main {  
  
 public static void main(String[] args) {  
 ThreadGroup sys= Thread.*currentThread*().getThreadGroup();  
 Thread curr =Thread.*currentThread*();  
 curr.setPriority(7);  
 Thread Th1 =new Thread("Th1");  
 Th1.setPriority(6);  
 Th1.start();  
 sys.list();  
 Thread Th2 = new Thread("Th2");  
 Th2.setPriority(3);  
 Th2.start();  
 sys.list();  
 ThreadGroup G7 = new ThreadGroup("G7");  
 Thread ThA = new Thread(G7,"ThA");  
 ThA.setPriority(7);  
 ThA.start();  
 G7.list();  
 ThreadGroup G3 = new ThreadGroup(G7,"G3");  
 Thread Tha = new Thread(G3,"Tha");  
 Tha.start();  
 Tha.setPriority(6);  
 Thread Thb= new Thread(G3,"Thb");  
 Thb.setPriority(6);  
 Thb.start();  
 Thread Thc= new Thread(G3,"Thc");  
 Thc.setPriority(6);  
 Thc.start();  
 Thread Thd= new Thread(G3,"Thd");  
 Thd.setPriority(7);  
 Thd.start();  
 G3.list();  
 ThreadGroup G2 = new ThreadGroup(sys,"G2");  
 Thread Th11 = new Thread(G2,"Th11");  
 Th11.setPriority(7);  
 Th11.start();  
 Thread Th22 = new Thread(G2,"Th22");  
 Th22.setPriority(3);  
 Th22.start();  
 Thread Th33 = new Thread(G2,"Th33");  
 Th33.setPriority(3);  
 Th33.start();  
 G2.list();  
  
 }  
}

**Output:**

**E:\univer\Anul III\Laboratoare\PCD\out\production\PCD" company.com.Main**

**java.lang.ThreadGroup[name=main,maxpri=10]**

**Thread[main,7,main]**

**Thread[Monitor Ctrl-Break,5,main]**

**Thread[Th1,6,main]**

**java.lang.ThreadGroup[name=main,maxpri=10]**

**Thread[main,7,main]**

**Thread[Monitor Ctrl-Break,5,main]**

**Thread[Th1,6,main]**

**Thread[Th2,3,main]**

**java.lang.ThreadGroup[name=G7,maxpri=10]**

**Thread[ThA,7,G7]**

**java.lang.ThreadGroup[name=G3,maxpri=10]**

**Thread[Tha,6,G3]**

**Thread[Thb,6,G3]**

**Thread[Thc,6,G3]**

**Thread[Thd,7,G3]**

**java.lang.ThreadGroup[name=G2,maxpri=10]**

**Thread[Th11,7,G2]**

**Thread[Th22,3,G2]**

**Thread[Th33,3,G2]**

**Process finished with exit code 0**