Problem-1

Write a program to print numbers from 0 to 4 using thread.

Code-

package pkg;

public class PrintingNumber extends Thread {

public void run() {

// Print numbers from 0 to 4

for (int i = 0; i < 5; i++) {

System.out.println(i);

try {

Thread.sleep(500); // Sleep for 500 milliseconds

} catch (InterruptedException e) {

e.printStackTrace();

}

}

}

public static void main(String[] args) {

// Create and start the thread

PrintingNumber thread = new PrintingNumber();

thread.start(); // Start the thread

}

}

Output-

0

1

2

3

4

Problem-2

Write a program to print 1 to 10 and sleep for 500ms using thread.

Code-

package pkg;

public class PrintNumbersWithSleep {

// Runnable class to print numbers 1 to 10 with 500ms sleep

static class PrintNumbers implements Runnable {

@Override

public void run() {

for (int i = 1; i <= 10; i++) {

System.out.println(i);

try {

Thread.sleep(500); // Sleep for 500ms

} catch (InterruptedException e) {

e.printStackTrace();

}

}

}

}

public static void main(String[] args) {

// Create a thread and start it

Thread thread = new Thread(new PrintNumbers());

thread.start();

// Wait for the thread to finish before printing the final message

try {

thread.join();

} catch (InterruptedException e) {

e.printStackTrace();

}

System.out.println("Finished printing numbers 1 to 10.");

}

}

Output-

1

2

3

4

5

6

7

8

9

10

Finished printing numbers 1 to 10.