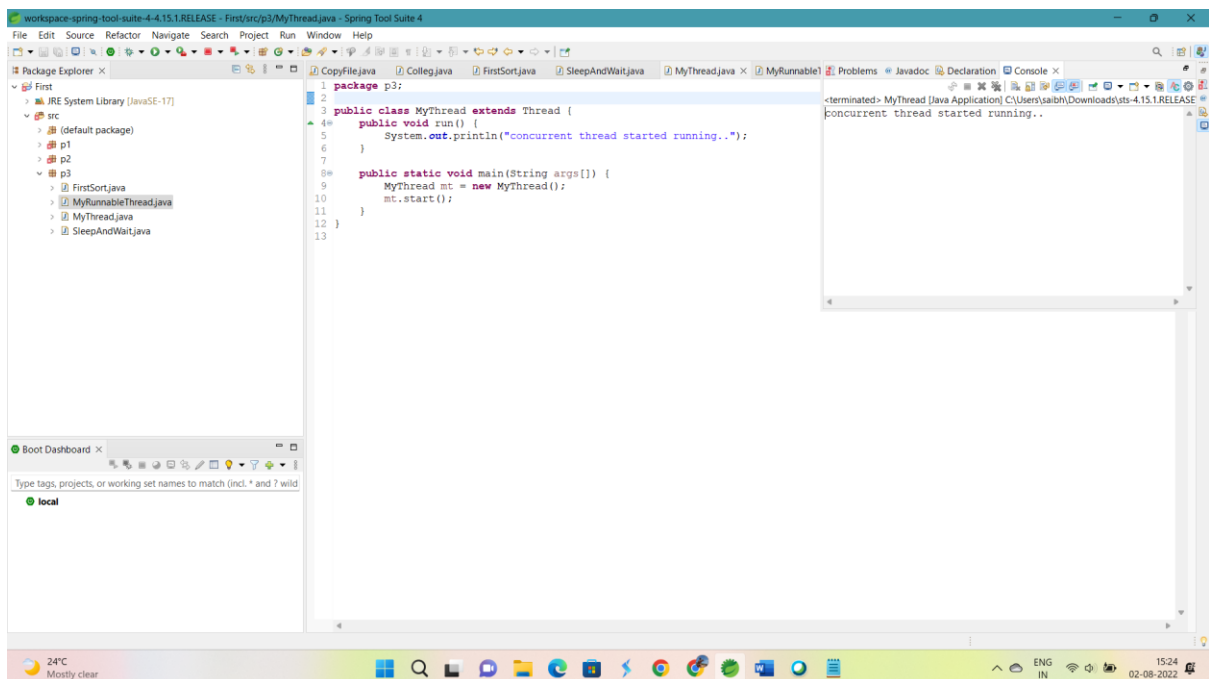


Write a program in Java to create a thread by extending the 'Thread' class and by implementing the "Runnable" interface

```
public class MyThread extends Thread
{
    public void run()
    {
        System.out.println("concurrent thread started running..");
    }
    public static void main( String args[] )
    {
        MyThread mt = new MyThread();
        mt.start();
    }
}
```



```
package p3;

public class MyRunnableThread implements Runnable { //class
    which implements multi threading

    public static int myCount = 0;

    public MyRunnableThread() { //constructor
```

```

    }

    public void run() {
        while (MyRunnableThread.myCount <= 10) {
            try {
                System.out.println("Expl Thread: " +
(++MyRunnableThread.myCount));
                Thread.sleep(100);
            } catch (InterruptedException iex) {
                System.out.println("Exception in thread: " +
iex.getMessage());
            }
        }
    }

    public static void main(String a[]) { //main function
        System.out.println("Starting Main Thread...");
        MyRunnableThread mrt = new MyRunnableThread(); //object
"mrt" created
        Thread t = new Thread(mrt);
        t.start();
        while (MyRunnableThread.myCount <= 10) { //logic
            try {
                System.out.println("Main Thread: " +
(++MyRunnableThread.myCount));
                Thread.sleep(100);
            } catch (InterruptedException iex) {
                System.out.println("Exception in main thread: " +
iex.getMessage());
            }
        }
        System.out.println("End of Main Thread...");
    }
}

```

The screenshot shows an IDE window titled 'workspace-spring-tool-suite-4-4.15.1.RELEASE - First/src/p3/MyRunnableThread.java - Spring Tool Suite 4'. The editor displays the Java code from the previous block. The Package Explorer on the left shows the project structure with 'p3' containing 'MyRunnableThread.java'. The Console on the right shows the output of the program, which matches the expected behavior: the main thread prints 'Starting Main Thread...' and then 'Main Thread: 1' through 'Main Thread: 11', while the spawned thread prints 'Expl Thread: 1' through 'Expl Thread: 10' and finally 'End of Main Thread...'. The status bar at the bottom indicates the system temperature is 24°C and the date is 02-08-2022.