Main.java

Share Run

```java
// 1.  Print the table of Two, Three and Seven using multi threading.


class TableThread extends Thread {
    int number;

    TableThread(int number) {
        this.number = number;
    }

    public void run() {
        for (int i = 1; i <= 10; i++) {
            System.out.println(number + " x " + i + " = " + (number * i));
            try {
                Thread.sleep(100); // Small pause to make output readable
            } catch (InterruptedException e) {
                // Handle exception
            }
        }
    }
}

public class Main {
    public static void main(String[] args) {
        TableThread t2 = new TableThread(2);
        TableThread t3 = new TableThread(3);
        TableThread t7 = new TableThread(7);

        t2.start();
        t3.start();
        t7.start();
    }
}

```

Output

Clear

```
2 x 1 = 2
7 x 1 = 7
3 x 1 = 3
2 x 2 = 4
7 x 2 = 14
3 x 2 = 6
2 x 3 = 6
7 x 3 = 21
3 x 3 = 9
2 x 4 = 8
7 x 4 = 28
3 x 4 = 12
2 x 5 = 10
7 x 5 = 35
3 x 5 = 15
2 x 6 = 12
7 x 6 = 42
3 x 6 = 18
2 x 7 = 14
7 x 7 = 49
3 x 7 = 21
2 x 8 = 16
7 x 8 = 56
3 x 8 = 24
2 x 9 = 18
7 x 9 = 63
3 x 9 = 27
2 x 10 = 20
7 x 10 = 70
3 x 10 = 30

=== Code Execution Successful ===
```

Main.java

Share Run

```java
// 2. Set the priority of each thread and show the outputs.

class TableThread extends Thread {
    int number;

    TableThread(int number) {
        this.number = number;
    }

    public void run() {
        System.out.println("Thread for table " + number + " started with priority " + this
            .getPriority());
        for (int i = 1; i <= 10; i++) {
            System.out.println(number + " x " + i + " = " + (number * i));
            try {
                Thread.sleep(100);
            } catch (InterruptedException e) {
                // Handle interruption
            }
        }
        System.out.println("Thread for table " + number + " finished.");
    }
}
```

```java
public class Main {
    public static void main(String[] args) {
        TableThread t2 = new TableThread(2);
        TableThread t3 = new TableThread(3);
        TableThread t7 = new TableThread(7);

        // Set priorities
        t2.setPriority(Thread.MIN_PRIORITY);    // 1
        t3.setPriority(Thread.NORM_PRIORITY);   // 5
        t7.setPriority(Thread.MAX_PRIORITY);    // 10

        t2.start();
        t3.start();
        t7.start();
    }
}
```

Output

Clear

```
Thread for table 2 started with priority 1
Thread for table 7 started with priority 10
Thread for table 3 started with priority 5
2 x 1 = 2
7 x 1 = 7
3 x 1 = 3
2 x 2 = 4
7 x 2 = 14
3 x 2 = 6
2 x 3 = 6
7 x 3 = 21
3 x 3 = 9
2 x 4 = 8
7 x 4 = 28
3 x 4 = 12
2 x 5 = 10
7 x 5 = 35
3 x 5 = 15
2 x 6 = 12
7 x 6 = 42
3 x 6 = 18
2 x 7 = 14
7 x 7 = 49
3 x 7 = 21
2 x 8 = 16
7 x 8 = 56
3 x 8 = 24
2 x 9 = 18
7 x 9 = 63
3 x 9 = 27
2 x 10 = 20
7 x 10 = 70
3 x 10 = 30
```

```
Thread for table 2 finished.
Thread for table 7 finished.
Thread for table 3 finished.

=== Code Execution Successful ===
```