Aim:

Write a Java program that uses three threads to perform the below actions:
1. First thread should print "Good morning" for every 1 second for 2 times
2. Second thread should print "Hello" for every 1 seconds for 2 times
3. Third thread should print "Welcome" for every 3 seconds for 1 times

Write appropriate **constructor** in the Printer class which implements Runnable interface to take three arguments : **message**, **delay** and count of types **String**, **int** and **int** respectively.

Write code in the Printer.run() method to print the **message** with appropriate **delay** and for number of times mentioned in **count**.

Write a class called ThreadDemo with the main() method which instantiates and executes three instances of the above mentioned Printer class as threads to produce the desired output.

[**Note:** If you want to sleep for **2** seconds you should call Thread.sleep(2000); as the Thread.sleep(...) method takes milliseconds as argument.]

Note: Please don't change the package name.

Source Code:

q11349/ThreadDemo.java

```java
package q11349;

public class ThreadDemo {

    public static void main(String[] args) throws Exception {

        Thread t1 = new Thread(new Printer("Good morning", 1, 2));

        Thread t2 = new Thread(new Printer("Hello", 1, 2));

        Thread t3 = new Thread(new Printer("Welcome", 3, 1));

        t1.start();

        t2.start();

        t3.start();

        t1.join();

        t2.join();

        t3.join();

        System.out.println("All the three threads t1, t2 and t3 have completed executio
n.");

    }

}
```

```java
class Printer implements Runnable {

    private String message;


    private int delay,count;


    public Printer(String message,int delay,int count) {


        this.message = message;


        this.delay=delay;


        this.count=count;


    }


    public void run() {

        //long value =delay*1000;


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


            //Thread.sleep(value);
System.out.println(message);
        }
    }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Good morning
Hello

Welcome
Good morning
Hello
All the three threads t1, t2 and t3 have completed execution.