Date:

ID: 204G1A0584

Exp. Name: Write a Java program demonstrating the usage of Threads

Aim:

S.No: 25

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
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.");
class Printer implements Runnable {
   String message;
   int delay,count;
   Printer(String a,int b,int c){
      message=a;delay=b;count=c; }
   public void run(){
      for(int i=0;i<count;i++)</pre>
         System.out.println(message);
         try{ Thread.sleep(delay*1000); }
         catch(InterruptedException ie) {
                                                       }
               System.out.println(ie); }
       }
```

}

Test Case - 1								
User O	utput							
Good mor	rning							
Hello								
Welcome								
Good mor	rning							
Hello								
All the	three	threads	t1, t	2 and	t3	have	complete	d execution.