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2022-2026-CSE-B

## 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

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

- 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 {
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(){
```

```
for(int i=0;i<count;i++){</pre>
      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.