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G3 (A)

Practical 12 Develop a program for implementation of Multithreading Operation.

CODE:

```
class hi extends Thread
{
public void run()
{
for(int i=1;i<=5;i++)
{
System.out.println("Hi");
try{Thread.sleep(500);} catch(Exception e){}
}
}
}
class hello extends Thread
{
public void run()
{
for(int i=1;i<=5;i++)
{
System.out.println("Hello");
try{Thread.sleep(500);} catch(Exception e){}
}
}
}
public class MultiThread
{
public static void main(String[] args)
{
hi obj = new hi();
hello obj1 = new hello();
obj.start();
obj1.start();
}
}
```

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OUTPUT:

D:\java>java MultiThread

Hi

Hello

Hi

Hello

Hi

Hello

Hi

Hello

Hi

Hello

D:\java>java MultiThread

Hi

Hello

Hi

Hello

Hello

Hi

Hello

Hi

Hi

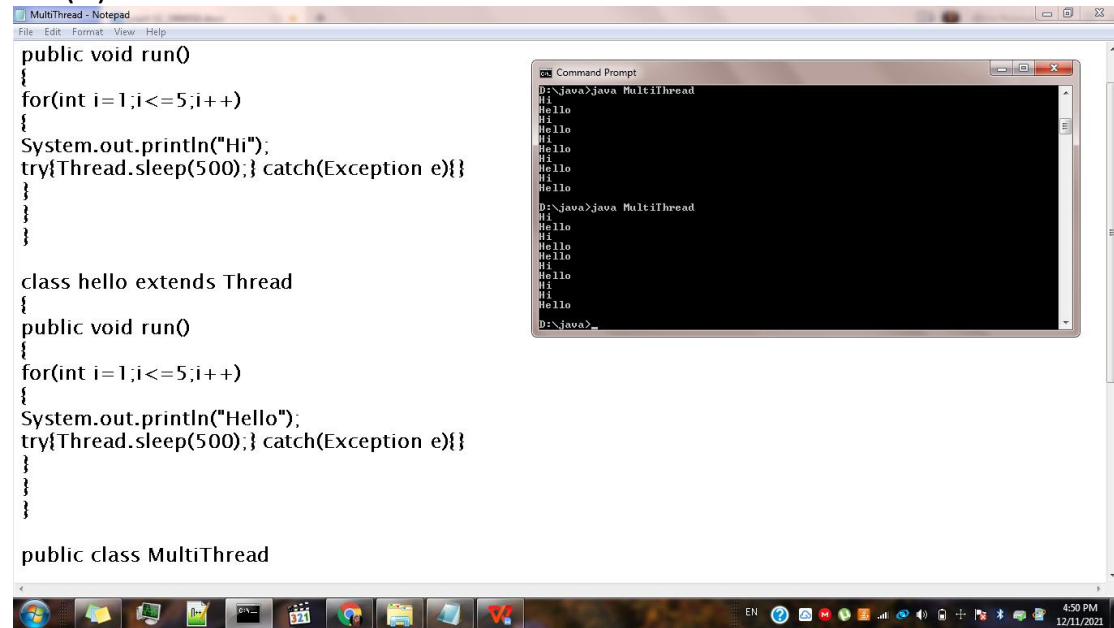
Hello

D:\java>

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The screenshot displays a Windows desktop environment. A Notepad window titled 'MultiThread - Notepad' contains the following Java code:

```
public void run()
{
    for(int i=1;i<=5;i++)
    {
        System.out.println("Hi");
        try{Thread.sleep(500);} catch(Exception e){}
    }
}

class hello extends Thread
{
    public void run()
    {
        for(int i=1;i<=5;i++)
        {
            System.out.println("Hello");
            try{Thread.sleep(500);} catch(Exception e){}
        }
    }
}

public class MultiThread
```

Overlaid on the right side of the Notepad window is a Command Prompt window. It shows the execution of the Java program. The first command is `D:\java>java MultiThread`, which produces five lines of 'Hi' output. The second command is `D:\java>java MultiThread`, which produces five lines of 'Hello' output. The Command Prompt window is titled 'Command Prompt' and shows the directory `D:\java>`.

The Windows taskbar at the bottom includes icons for the Start menu, File Explorer, Notepad, Command Prompt, and other background applications. The system clock in the bottom right corner indicates the time is 4:50 PM on 12/11/2021.