

6-2-24

Jit?

PAGE NO.:

## LAB-5

Write a program which creates two threads, one thread displaying "BMS College of Engineering" once every two seconds.

```
class DisplayMessageThread extends Thread {  
    private final String message;  
    private final long interval;
```

```
    DisplayMessageThread (String message, long interval) {  
        this.message = message;  
        this.interval = interval;  
    }
```

```
    public void run() {
```

```
        try {
```

```
            while (true) {
```

```
                System.out.println(message);
```

```
                Thread.sleep(interval);
```

```
            }
```

```
        } catch (InterruptedException e) {
```

```
        }
```

```
            System.out.println(Thread.currentThread().getName() +  
                                "interrupted");
```

```
        }
```

```
    }
```

```
}
```

```

public class ThreadExample {
    public static void main (String[] args) {
        DisplayMessageThread Thread1 = new DisplayMessageThread("BMS
            College of Engineering", 10000);
        DisplayMessageThread Thread2 = new DisplayMessageThread
            ("CSE", 2000);

        Thread1.setName("Thread 1");
        Thread2.setName("Thread 2");

        Thread1.start();
        Thread2.start();

        try {
            Thread.sleep(3000);
        } catch (InterruptedException e) {
            System.out.println("Main Thread interrupted.");
        }

        Thread1.interrupt();
        Thread2.interrupt();

        System.out.println("Main Thread exiting.");
    }
}

```

Output:

BMS College of Engineering

CSE

CSE

CSE

CSE

CSE

BMS College of Engineering

CSE

CSE

CSE

CSE

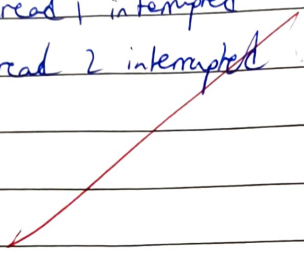
CSE

BMS College of Engineering

Main Thread exiting

Thread 1 interrupted

Thread 2 interrupted



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6/2/2024

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```
PS C:\Users\BMSCE\Desktop\1bm22cs195> Javac Deadlock.java
```

```
PS C:\Users\BMSCE\Desktop\1bm22cs195> Java Deadlock
```

```
MainThread entered A.foo
```

```
RacingThread entered B.bar
```

```
MainThread trying to call B.last()
```

```
Inside A.last
```

```
Back in main thread
```

```
RacingThread trying to call A.last()
```

```
Inside A.last
```

```
Back in other thread
```

```
PS C:\Users\BMSCE\Desktop\1bm22cs195> ^S
```