

Lab-9

```
import java.io.*;  
class B extends Thread {  
    public void run() {  
        try {  
            for (int i = 0; i < 3; i++) {  
                System.out.println("BMS");  
                Thread.sleep(1000);  
            }  
        } catch (InterruptedException e) {  
            System.out.println(e);  
        }  
    }  
}
```

```
class C extends Thread {  
    public void run() {  
        try {  
            for (int i = 0; i < 3; i++) {  
                System.out.println("CSF");  
                Thread.sleep(2000);  
            }  
        } catch (InterruptedException e) {  
            System.out.println(e);  
        }  
    }  
}
```

class ThreadMain
public static void main (String args[]){
 B b = new B();
 C c = new C();
 b.start();
 c.start();
}

}

Output

BMS
CSE
CSE
CSE
BMS
BMS

Lab program - 10

```
import java.lang.*;  
class A {  
    int n;  
    boolean valueSet = false;  
    synchronized int get() {  
        while (!valueSet) {  
            try {  
                System.out.println("\nConsumer waiting\n");  
                wait();  
            } catch (InterruptedException e) {  
                System.out.println("Interrupted Exception");  
            }  
        }  
        valueSet = false;  
        System.out.println("In Intimate Producer\n");  
        notif();  
        return n;  
    }  
}
```

```
synchronized void put(int n){  
    while(valueSet){  
        try{  
            System.out.println("In Producer waiting");  
            wait();  
        } catch(InterruptedException e){  
            System.out.println("Interrupted Exception caught");  
        }  
    }  
    this.n=n;  
    valueSet=true;  
    notify();  
}  
}
```

```
class Consumer implements Runnable{  
    Queue q;  
    Consumer(Q q){  
        this.q=q;  
        new Thread(this).start();  
    }  
    public void run(){  
        int i=0;  
        while(i<15){  
            int r=q.get();  
            System.out.println("Consumed "+r);  
            i++;  
        }  
    }  
}
```

```
class PC_Fixed {
    public static void main (String [] args) {
        Q q = new Q ();
        new Producer (q);
        new Consumer (q);
        System.out.println ("has control-c to stop");
    }
}
```

Output:

Main Thread entered A.foo

Racing Thread entered B.bar

Main Thread trying to call B.start()

Inside A.start

Back in main thread

Inside A.start

Back in other thread

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6/2/20