

18/12/2020

1BM19CS158

## INTERTHREAD

```
class CarService {  
    public static void main (String args[]) {  
        Car-Queue q = new Car-Queue ();  
        new Car-Owner(q);  
        new Car-Mechanic(q);  
        System.out.println ("Press Ctrl+c to stop.");  
    }  
  
    class Car-Queue {  
        int n;  
        boolean valueSet = false;  
        synchronized int get() {  
            while (!valueSet)  
            {  
                try {  
                    wait();  
                }  
                catch (InterruptedException e) {  
                }  
                System.out.println ("InterruptedException caught");  
            }  
            System.out.println ("Service provided:" + n);  
            valueSet = false;  
            notify();  
            return n;  
        }  
        synchronized void put (int n)  
        {  
            while (valueSet)  
            {  
                try {  
                    wait();  
                }  
            }  
        }  
    }  
}
```



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```
catch (InterruptedException) {  
    System.out.println("InterruptedException caught");  
}
```

```
    this.n=n;  
    valueset = true;  
    System.out.println("Order placed:" + n);  
    notify();  
}
```

```
class Car-Mechanic implements Runnable {  
    Car-Queue q;  
    Car-Mechanic (Car-Queue q) {  
        this.q = q;  
        new Thread (this, "Car-Mechanic").start();  
    }  
    public void run() {  
        int i=0;  
        while (true) {  
            q.put(i++);  
        }  
    }  
}
```

```
class Car-Owner implements Runnable {  
    Car-Queue q;  
    Car-Owner (Car-Queue q) {  
        this.q = q;  
        new Thread (this, "Car-Owner").start();  
    }  
}
```

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

```
        while (true)  
        {
```

```
            q.get();  
        }  
    }  
}
```