

```
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)  
            {  
                System.out.println ("InterruptedException can  
                System.out.println ("Service provided : "+n);  
                valueSet = false;  
                notify();  
                return n;  
            }  
        }  
    }  
}
```



```

synchronized void put (int n)
{
    while (!valueSet)
    {
        try {
            wait();
        }
        catch (InterruptedException e)
        {
            System.out.println ("InterruptedException caught");
        }
        this.n = n;
        valueSet = true;
        System.out.println ("ordered 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++);
        }
    }
}

```


}
ε public void run()

while (true)

{

q.get();

}
}