Inter Thread Communication



```
class Producer extends Thread
    int i=1:
     public Producer(Queue q)
         this.q=q;
    public vaid run()
         while(true)
                                            intinit
              q.produce(i++);
class Consumer extends Thread
{
Queue q
public consumer(Queue q)
         this.q=q;
    public void run()
         while(true)
}
class Queue
{
    int data;
boolean flag=false;
     synchronized public void produce(int i)
              if(flag==true)
                  System.out.println("Poducer in waiting state"); wait();
                  data=;
System.out.println("I Have Produced Data "+ data);
flag=krue;
notify();
         }
catch(Exception e )
              e.printStackTrace();
     synchronized public void consume()
              if(flag==false)
                  System.out.println("Consumer in wait state");
wait();
                              (10
                   System.out.println("I Have Consumed Data "+ data);
flag=false;
notify();
         } catch(Exception e)
              e.printStackTrace();
```

flag = fale

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