

Producer Consumer Problem Using Inter Thread in java:-

Class a

```
{
    int num;
    boolean valueSet = false;

    Public Synchronized void Put (int num)
    {
        While (valueSet)
        {
            try
            {
                Wait ();
            }
            Catch (Exception e) {}
        }

        System.out.println ("Put : " + num);
        this.num = num;
        ValueSet = true;
        notify ();
    }

    Synchronized
    Public void get ()
    {
        While (!valueSet)
        {
            try
            {
                Wait ();
            }
            Catch (Exception e) {}
        }

        System.out.println ("Get : " + num);
        valueSet = false;
        notify ();
    }
}
```

Class Producer implements Runnable

{

Q q;

(constructor)

Public Producer (Q q) {

this.q = q;

Thread t = new Thread (this, "Producer");

t.start();

}

Public void run()

{

int i = 0;

while (true)

{

q.put (i++);

(loop)

try

{

Thread.sleep (1000);

}

Catch (Exception e) {}

}

}

}

Class Consumer implements Runnable

{

Q q;

Public Consumer(Q q)

{

this.q = q;

Thread t = new Thread(this, "Consumer");

t.start();

}

Public void run()

{

while (true)

{

q.get();

try

{

Thread.sleep(1000);

}

catch (Exception e) {}

}

}

Public class InterThread

{

Public static void main (String[] args)

{

Q q = new Q();

new Producer(q);

new Consumer(q);

}

}

Link :- <https://www.youtube.com/watch?v=A1tVMpWHh8gt=4s>