**WEEK 10**

**1BM21CS247**

**INTER THREAD COMMUNICATION**

Source code:

class Q{

int n;

boolean valueSet=false;

synchronized int get(){

while(!valueSet)

try{

wait();

}catch(InterruptedException e){

System.out.println("InterruptedException caught");

}

System.out.println("Got: "+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("Put:"+n);

notify();

}

}

class Producer implements Runnable{

Q q;

Producer(Q q){

this.q = q;

new Thread(this, "Producer").start();

}

public void run(){

int i=0;

while(true){

q.put(i++);

}

}

}

class Consumer implements Runnable{

Q q;

Consumer(Q q){

this.q = q;

new Thread(this, "Consumer").start();

}

public void run(){

while(true){

q.get();

}

}

}

public class inter\_thread {

public static void main(String[] args) {

Q q = new Q();

new Producer(q);

new Consumer(q);

System.out.println("Press Control-C to stop.");

}

}