G.K. Gagara priya

## 1 Inter Arread Communications 9m Java:-

Inter thread Communication is all about allowing synchronized threads to commun cate with each other .

Inter thread Communication is a mechanism Pn which a thread es powsed running in the critical section and another thread Ps allowed to enter Pn the same contral section to be Executed.

It is implemented by following methods of object class

\* wast ()

· \* notify()

\* notifyAll ()

Example of Porter thread communication: class austomer & Port amount = 10000; synchronized void withdraw (Port amount) & system. out. prentln ("going to withdraw"); of (thrs. amount camount) { system out printin Mess balance; wasting for deposit "); try (wart (); y catch (Exceptron e) & 3 4 but both both both in this amount = amount; System out protto (" withdraw completed"); 3. start (); 1. telepoit ; plan beauty SynchronPred vord deporat (Port amount) { System out printin ("gorng to deposit"); thes, amount += amount; system out protte ("deposit completed"); notify();

public states void main (string[] args) final customer (= new customer (); new thread () { public vold run () 8 C. 6000); } y.start(); New Thread () g public vold run () & c. deposit (10000);4 

all Thread states!

A thread Px a path of Execution Pn a program that goes through the following states of a thread. The five states as follows

- -> New
- → Runnable
- >> Running
- ⇒ Blocked
- → Dead

Example: - [Thread Demo. Java]
/\* Thread 1\*/
class Thread 1 extends Thread

public vold runc)

system.out.println ("Thread 1");

system.out.println ("P Pn Thread 1");

for (Pnt P=1; P<=5; "++)

system.out.println ("P="+1");

Thread . sleep (1000); catch (poterrupted Exception e) e. print stack Trace (); system.out. protto ("Thread 1 completed"); 1 Thread 2th class thread 2 extends thread . public void runc). system.out. protto ("Thread 2"); , system-out-println ("Printhread 2"); for (Pnt P=1; Px=5; P++) system.out-println (11 = 1+1); System out printin ("Thread 2 completed");

public class thread Demo 2 public states vold maken (string [] args) { Thread 1 t1 = new thread 1 (); Thread 2 to = new thread 2 (); t1. start (); to, yfeld (); t1 . deep (1000); catch (Interrupted Exception e) e.printstack Trace(); ta.startci; eystem.out-protto ("marn, Throad End")