class Test - 12

) Lava Program to inter-throad dommunuations: Public clais interhoood Public stolic void main (String (7 augs) 3 messageque message queue = new messagequeue (); Thread Produce thread: new thread (now Produced Thread consume thereof: new Threead (new consume (mercage queue)). Producer Thread. shat (); consumer thread. Start (); elas message quere s Privake String mossage; Privake booleon message available: Public Synchronogal void Pulmossage ( whing mesting) whole (message available) ;

```
this messag = message.
   message trailable: bue;
  System. out. Paintin ("Provoluced:" + message);
 inolity ();
Public synchronized Moring get mestage 1) 3
   robbe (! message Available) {
       wait ();
  Maket (interrupt exception () 3
      Thread durrent thread (). interrupt ().
Public void run () 2
         for (int i =1; i c = 5; i+1) g
           message que getmessage ().
      try 3
          Thread . sleep (1000).
```

Java Program to demonstrale all threeids: Public Mars thread demo } Public Static boid main ( Mring angs [ ]) Thread new thread = new horad (new skale threal ()): Thread runnable = new thread (new revnable throw()); blocked thread = new thread (new blocked thed ())] Thread waiting thread = new thread ( new waiting state ()); new-thool. shoul (); nunnable Thread Short (); Thread sleep (100). blocked thead Start (); Thread sleep (100); wasting thread. Mart (); timed waiting thread. Start () Thread sleep (1000).

class waring state threat implements runnable & Public void rum () & synchronged (thouad slot demo. class) ; fay 2 Thread state demo class. wait (). I lakeh thread. Kernet threed (). interryt (); class semewaiting state threat implement runnable & Public void run () 3 try 2 Thread. sleep (1000); y dolen thread. lurrent thread (). interrupt ().