```
write a program to illustrate the use of
        Thread class and Rumalle inhifau (Grahad
  Thead class
 mont janaico. 4;
 lass Denio entinds Thread &
     public Void rune)
     gyptur out - puth (" Welcom to cor");
   public static void main (Stug EI ays)
      Deno d = new Deno ();
     g. start ();
by Impliciting Thread Punnable Interface.
Import javario . T;
dan Demo imphils Purnalele L
  public stadic void main (String I args) &
  & Demod = New Demo();
      Theread f = new Thread (d, " yash");
       t. stat (1:
      Systemond. puth(" t. god Nam ());
   @ Overide public void rul) &
       System. Out. puth (" Inside Ven hutrod");
```

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Output!!-Welcome to CVR ( singles) may be Output 2 !- word and was " " ) bust were Inside run troud

Write a program to illustrate the arright ent jana. lang. io. "; whic class Thread Priority entrals Thread public void rune, System out · proth(" Inside van hetwod"); public static Void main (Stringer augs) Thread : cured Thread and Priority (7); System. Out- printle ("Priority of maintrued:"+ Thread aut Twend get Provity ()); Thread Privity to = new Thread Privity (); System out - puth ("Priority of trued to:" + tr. get Mority (1) }

Dufud: -Jaside run Metrod Priority of hair Tweed: 7 Provity of twend to: 37 3 hours do ha (" out of walter" " ). of: void man (stug EZ orgs) de vom Dema (); rosed Francisch Todalon. up Pursalely C 3 (open [ Sprint? ] ion bo new O eno ( ); (" yest " to) beserd ( our

Weite a program to Synchronize tweads. Use any problem to illustrate true court Page No. 35 yout java 10. 4; you java. uliv. <; as & Sender S jublic void send (String mg) & Systm. out. puth (" sending It" + mag); Thread. shep (1000); catch (Exeption e) & y Syptim. out - puth (" Threead Intrupted."); System. out . put [" In" + may to sent"); less Threadofferd cutudes Thread & plinate String mag) Sendu senduj Threaded Send (Sting m, Sendr 04) msg = m; 3 sende = 00)) qublic void run () E & synchronized (sudn) & serder. sud (mog) ; 3

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Syre Demo & Page No. 36 jublic static void main (String augs I) & Sender and = new Sender (); Threaded Send SI = new Threaded Send!" Hi", and ); Threaded Send Sz = new Threaded Send ("By", and ); SI. start (); Sz. start 1; SI-join () Sz.join(); Catch (Exeption e) System. out pote l'Intropepted 1/; 4

1 Output! -Sending Himseline Sending Bye Ry sent 3 (Brus bring) ? de ("seeding /t" + 10g), (1000) jula, o just (" Direcal Tobuyted.") " + 32" + gan + " of" ) ren de Throad E Strag my Seedy OLI) &

O) Develop a Jana Application to denostrate inter thread communication (Produce ad Comm you java . util . Lined List ; ublic class Threadenample & jublic static void main (Stry EJ args) throws Intrupted Exeption final PC AC = new PC(); Thread +1 = New Thread (new Punnaled 1) & @ Override quedic void rune, & y nc. produe (); catch ( Intercepted Eneption e) & e. print Stand Trail); Thread to = new Thread (new funnally) & @ Override questic void run () & try & y.c. consum(); catch (Introughed Fxuption e) & e. jeint Stare Teau(); 3 3 3)1

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```
ti start();
                                                   Page No.
        {2. otart();
                                                           38
        ti join();
 ( join ())
public class static class PC &
              Linead list & Intger > list = new lineablist 2> ();
              int lapanity = 2;
              justic void product) twous Intoughed Exeption, &
                  int Value = 0;
                  uehile (true) &
                    Synchronized (this) &
                         wehile [list-size 1? = = capacity)
                               wait();
                         System. oud. prof ("Produm produced-", +valu)
                         list. odd (Valu +4);
                         notify();
                        Thread. sleep (1000)
             Z
       Dic void corsum () throws Intropped Exeption &
        while (true) &
           & syntheonized ( this ) &
                   uehile (list-size () = = 0)
                   intel = list renou first();
                   System out puth ("consur consud." +val);
                    notify ();
                 5 Thread sleep (1000);
           4
```

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Output. Produor produced - On many produd - 1 Corner corned - 0 · (molday. Comm Consund - 1 Produce Product - 2 ; End from the Land bayes class Threadonaryle & (cpro [ 3 ports) vien Liou Adda May. from Tobrage of English (1) 29 men - 29. 29 leif Tired +1 = 1200 Tores ( (now Prevalle ( 1) E 2 ( now piou silling no - product; coldy [ Throughful Englis e) & e purt stand tred); wend to = new Thread (new Rumal LI) & & worder & () nur biou silday · ( Densai . sop 3 th calch (Introducted Frugtions) & ( ) west strip. 9

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