open Ended Exoruse lab :-10 · Demonstrate Inter process communication and class of 100 to Synchronized ent get () } System. out. pointln ("hot:" +n); suturn; 3 Synchronized void put (Port n) ? they onen; Bystem. out. printin ("put "+n); 2 4 Class Producer emplements Runnable & 0 P; Producer (O, P) } new thread (this, "Producer"). Start(); this. 9=9: 94 bappie roig enu () à int 1 = 0 while (i28) } y. put (i++); class consumer implements Runnable & Q 9; consumer (9 9) } this . 9 29 3 new Thread (finis, "consum en"), start 8

public vola sun ()s int 1= 0 while (i28) } înt r= q. get(); + TONY) of hing wo multiple 3 33 PCZ class Public Atatic Void main (string args [J) {

System. out. Printin ("Sonthosh s");

Q q = new Q(); new Produced (a); new Consumer G); System, out. printing Press Control-c I altaled to make ? to stop. "); 39 output · Santhosh s 2023BM 62586 f (A) rod book bestroadson. put 0 Shoe the Threed water + Thread, Comment Riot D Sychan a + 3 mana mange ten mange put 1 Bot 1 : (0001: 88/15m) good 8 . honer! put 2 Got 2 3 (3 noitquires) data) put 3 or at a parties Go+ 3 12 vot 4 + man a thing Bot & PUT 5 GOTS \$3.02.24

13-12-2024 10) 2 Deadlock class Af Synchronized void foo (Bb) { Storng name: Thread. Current thread (). get System. out. println (name + " entered A. fo try{ threstad. Sleep (1000); Catch (Exception e) { System. out. printin (" A interrupted "); System. out. print In (name 1 "tgrying to call B 6. last (); System. out. pointin ("Inside A. las +"); void (ast() { class B { Synchronized vord bar (Aa) ? String rame = Thread. Current Thread. get Name! Syckmout. printly (name + " enkned B. bar") toll Thread. Sleep (millies: 1000); System. out-priottn (" B is Interrupted"); Catch (Exception System. out. printin (name + "toying to call A.b a.last();

hold gast() & System. out. printin ("Inside A. (ast'); 33 Runnables implements plas public class Deadlock A a = new A(); B b= new BC); Dead Lock () { Thread. avrent Thread(). set Name ("riain + wread"). Thread t = new Thread (this , thating Thread"); t. start(); system. out. println C' Bacle in mainthreadiz a. po (b); public void run ()? system. Out populla ("Back in other thread"). b. bax (a); public static void main (string angect)? new Deedlock(); loung thread Briefed B. Bax. Racing thread enter A. foo.
Mainthread to call the B. last
Main Thread to raide A. last B.
Alast inside A. last B.
Racing thread trying to call the Alast();
Racing thread trying to call the A. last (); inside A. last inniger Astort \$3.02. Back in 6ther three Back in main thread.