PAGE NO : Demonstrate Inter process communication deadlock. 20 class Q q int n? boolean value Set = palse , synchronized int get() of while (! values p-1) toya system. out. println ("consume waiting | n'); Yeatch (Interrupted Exception e) of system out println ("Interrupted Exception caugh"); System out-paintly f" Interrupted Exception Got"+n) valueset = jalse; system. out. printh(" InIntimate Produces In"); notify(), retorn n; Synchronized upid put (int n) of while(value set 48 y & System - out printly /" In Producer waiting In"); wait(); 3 catch (Interrupt Exception P) of System. Out printm ?"Interrupted Exception caugh!"); value Set = true ; System.out - printh ("put: "In); System out - println ("In Intimate consumer In"); notify(),

PAGE NO : class Produces implements Runnabled Roduces (Q q) new Thread (this, "Broduces"). etast(); public void sun() while (ich 9. put (i++); class Consumer implements Runnable & Consumer (Q q this eq = q; new Phread (this) ("(onsumer") - start(); public void son () in+ j=0; 7. while (iz int x=q get ();

System. out .pointln("(onsumed: "+));

PAGE NO : class PCFixed of public static void main (string args (7) 4 & q = new Q(); new Produces (a)i new (onsumer(q)) system.out. pointin("press (ontrol-(to stop."); atput: Press Control-C to stop Put & O Portimate Consumer Roducer waiting 6107: D Potimate Produces appsymed: 0 Pu + : 1 Intimate Producer consumed: 0 Pu +:) Intimate cosumer Producer waiting Potimate Producer Consumed: 2 Put a Intimate consumer Roducer waiting G10+: 2 Intimate Boduces consumed: 2

1 6		PAGE NO: DATE:
	Intimate Produces	
	consumed: 2	
	Pu+:2	
	Intimate Consumer	
	Andwer waiting	
	870-1:3	
	antimate Roducos	
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and the same of th	consumed: 5	Daniel P.
	PU+:6	- Charles
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PAGE NO : Deadlock class A synchronized void foo (B b) string name: Thread arrest Thread () get Name () system out println (name + "entenerd A . 100" Thread . sleep (1000); 9 catch (Exception e) system.out.psintln("A Interrupted"); system out print In (name + "toying to call & lasto") b. Jas+(); void last 1) f system.out. println ("Insid A. last"); class B d synchronized void box (A a) of String name = Thread arrent Thread(). get Mame(); 3 ystem. out. println (name + "entered B. bar Thread sleep (1000); , catch (Exception e system. out . prim In 1's Interrupted"); System. out, println(name + 1'trying to call A. last()"); a·last();

poid lost()d Rystem. out println ("Inside A. last"); class pendlock implements Ruppoble A a - new Alli B b = new B(); Deadlock() d Thread current Thread () sefriand "minthered" Thread + - new Mrsead (this, "Rocing Mrsead") t.stast(); a . foo(b); Stretem. out . println ("Back in main Thread" public void sun() b. bar (a); system. out . println ("Back in other thread") public static roid main (string asgs[]) new beadlock(); Output 3-MainThread entered \$- 600 Roung Thread entered B. bar Main Thread toying to call B. last () Inside A. last Back in main thread RacingThread toying to call A last () Inside A. last

