obloalay	Week-10 IPC
,	
3	dess a h
	int n;
	boolean value set = false;
	Synchronized int get()?
	while (! value Set)
	try h
	wait();
	3 catch (Inturupted Exception e) &
	System out mount a recovery
	System.out. print ln("Got: "+n);
	value Set = galil;
	notify ();
	return n;
	3
	Synchronized void put (intn) h
	while (value Set)
	tryh
	wait();
	3 catch (Interrupted Enception e) h
	System. out. println ("Put "+n);
	notify ();
	y 3
	class Producer implemente Runnable h
	a q;
	Produer (Qq)h
	this. q= q;
	new Thread (this, "Produces"). start ();
	3. 51.00(1)

	Date
_	Page
1	inti=0;
_	ruhille (1 < 15) L
	g.put (i+);
	3
	4
2,	West of
3	ass consumer. Emplements Runnable h
_	9
	oneumer (a g) h
_	thù - q = 9:
	nue Thread Cothis , " (onsume "). start ()"
Z	
	ullic void runt)h
+	inti20;
_	while (i < 10) h
1	int r= g.get();
	î Ht
	}
3	in the same of the same
4	
el	ass p(fixed) {
192	pullic static void main (String angs []) h
	a g = new a();
1	nui produux (9);
	nue conumu (2);
	system. out. println("Porus (ontrol-to stop "); 3
3	V
00	tput: Put: 0
_	Put: 1
	40t: 1
	Put: 2

40t:6 401:8 Got: 4 Got: 2 Put:7 Put:5 Put 19 Put: 3 Got: 7 Got: 5 902:9 40t:3 Ru.S Put: 10 Put: 6 Put: 4 90t:10 Readlock 1 class A h Synchronized void foo (Bb) h String name: Thread. werrent Thread () get Name ();
System. out. println (name + "entered A. foo"); Thread. sleep (1000); 3 catch (Exception e) h System. out. println ("A Interrupted"); 3

System. out. println (name + "trying tocall Ba.last)"); b. last (1; } void last () { System. out. println ("Inside A. last"); class Bf synchronized void bar(A a) h String name Thread. whent Thread 1). get Namel) System.out. println (name + "entired B. bar"); Thouad. sleep (1000); 3 catch (Exceptions) & System, out. println ("B Interrupted "):

	Date Page
	System. out. printeln (name + "trying to call 1. Past 15"); a. last (); 3
	void last (1 h
	System. out. println ("Inside A. Last");
	y
	y
	class Deadlock implements Runnalle
	f
	Aa = num A(1);
	8b = new B();
	Deadlock 1) E
	Thread . current Thread (). Set Name ("Mai'a Thread")
	Inread. += new Thread (this, "Raing shread");
	l. start ();
	a. 100 (b);
	3ystem. Out. println ("Back in main thread");
$\overline{}$	3
$\overline{}$	Output:-
_	main thread entired 1. 100
	Racing Thread entered B. ban Main thread trying to call B. last ()
	mainthread trying to call B. last ()
	Inside A. Last.
	Back in main threed
	having thread trying to call A. last ()
	Inside A. Last
	Back in other thread
	June 11 Trouse