6-2-24 PAGE NO.: Dr. LAB-10 Denerifiate Inter process Commication and deadlock class Q { boolean value Set = false; synchronised int get () { shile(!valeset) System out printen ("In Cosumer Waitight"); 3 catch (Interrupted Exception e) {

System.oud. psintle ("Intempted Exception caught"); System.out. printla("toot: "+ n); System out printle ("(n Producer wasting \n"); 3 (Jeh Contempted Exception e) {

System.out.prinllu(" Intempted Exception cought"); Value Set = Love; Systemout. printle ("Put: "+n); System. out. println("\n Inthreste Consumer\n") notity () class Producer implements Punnelle { Produces (12 2) ? new Thread (His, "Produce"). start();

PAGE NO. public void in () { int too WHILE (ic 15) { 9. put (i++); class Consurer implements Rumable ? Consumer (ag) { His. 9= 9; new Thread (this, "Consurer") start(); public roid run () } int = 0; while (iz15) { int = 9.gct(). System. out. printla ("Consumed:"+ 1) public static void main (String orgs []) { H Q 9 = new Q(); nen Produces (9); new Consumerly) Systen.oct. printle (" Press (tx) (to stop.").

PAGE NO (ST

output.

Press Control-C to step. Producer mailing Cot: 5 Intirale Coower Producer Intirale consumes Produce northing Radace working consued: 5 Got: 0 Put: 6 I Hinak Producer Intinale Consumer Intinate Consumer Producer waiting Producer waiting Consured: 0 Intinate Consumer consumed: 6 Intirated Probeer Intivale Coismer Producer waiting: Intivole Consumer Got: 7 Roducer waiting Intivate Produce (not: 2 consumed: 7 Intimate Producer Put in 8 Corsued: 2 Jatinate Consumer Producer wasting Intirate Consumer Crut: 8 Producer witing 1 Intivate Produce consumed: 8 Intivade Produce Consured: 3 Intivate Consumer Producer waiting Producer waiting Coot: 9 Got: 4 Intinate Product Intimate Producer conside 9 consumed: 4 Put: 10 Intivale Consumer Intivatel Consumer

Producer waiting

```
PS C:\USETS\BMSCE\DESKTOP\1DM22CS195> Javac PCF1Xed.Java
PS C:\Users\BMSCE\Desktop\1bm22cs195> java PCFixed
Put: 8
Press Control-C to stop.
Got: 8
Put: 1
Got: 1
Put: 2
Got: 2
Put: 3
Got: 3
Put: 4
Got: 4
Put: 5
Got: 5
Put: 6
Got: 6
Put: 7
Got: 7
Put: 8
Got: 8
Put: 9
Got: 9
Put: 18
Got: 18
Put: 11
Got: 11
Put: 12
Got: 12
Put: 13
Got: 13
Put: 14
Got: 14
PS C:\Users\BMSCE\Desktop\1bm22cs195>
```