```
lab -10
                                                            ) () Had biran
doss A f
  synchronised word foo (B b) {: [" that A start" ] attained to make the
      Edving name = Thread . surrent Thread (). get Name ();
      System. out. printer (name + "entered A. 600");
                                     was Esachert inflaments Runable &
                                              A a = 1 was A();
          Thread. Stelfa (1000);
       } costet (Esseption e) {
          Lysten. out pounts (" A Interuppled");
                                                        ] () stalkarl
       disead. Whish Thread () - Let Name (" Main Thread");
      tystem out - println frame + " trigging to call B. last ()"
     b. last ();
                    bysten . but builts ("Bak is main thread")
word last () {
```

```
System. out. brith ("Inside (A Jast ") river biou silve silver.)
                                               B b = new B();
                                              C c= rew C();
                                                    b. sbut();
class B &
                                                    c. Stat ();
   Synchronised uoid har (A a) {
        altring name = Thread . werest Thread (1. get Name ();
        Lysten - out . Winter ( name + " entered B - liar ");
            Thread. sleep (1000);
         I chatch (Exception e) {
            dysten out printer (" B Interrupted ");
  aysten. out. printler ( name + " brying to eal A. last () ");
                                                                        CMA
   a. lest ();
 word last () of
     Lysten. Out . printer ( "Inside A . last ") i) (d &) out bion becomerchings
                  Eltring name = Thread. whent thread (). get Mane ();
                       System. Out. Hrinten ( name + " entered A. foe");
class Deadlock inflements Runaville of
     A a = new A(1;
                                             i (2001) plech. bourt
     B b = new B();
                                              ) colun (Euchtein e) {
    System. out. points (" A Descripted); out of Josephand
       Thread. (whrest Thread () - set Name (" Main Thread ");
       Thread to new thread (thing," "Rowing abrevial"); two. moderal
                                                         : () Hel: d
       a. foo (b);
       System - out . printer ("Back in main thread ") ?
                                                               ) With Kew
```

public Hatic word main ( Etting args ()) por all of many new Deadlock; ushe det = folk; Got; dystem. out. Journal (" Jell Mudwert); netify (1) QUTPUT -: 1) mader Main Whead entered Rawing Thread entered B. har Main Thread brying to tall B. last () duribusculad would fat like o) [ while (where Let) [ Inside A. last Back is main Thread Rowing Worked Drying; to wallton A! last (5") altitle the added Inside A. last I coth (Edestroplad Englassin e) ( Back in other thread Lyten . Oct - Inoth ( e) ) +tw. n = n ;. i aunt = Le entau Luster out thirth (" let: "+");

apply . But . Bruth L' lut : + ?); (" demotion the ") others! the most red Prolon- jana · ( butan class & f enformed windlessed have int ni hoolean notre set = false; synchronised int get () { ? 10 B) Rembur while (! value set) ? The and ( trie. " Husture") stort System-out . printer (" Consumed Waiting "); Catch (Intervented Exception c) { System. out. printle (e): 3

Lysten. Out. printen (" (" tin) of I riam brow sidely sidely new Deadlast; Got: nature set = false; Lysten. out. pourter (" Tell produce"); notify (); handrented was har (A 4) hetwo (); usin Ilhead Enterned A. foo Raving Etherad Enterted B. Row Ministrad Arigina to call 8. last () Lynchronised world but list n) [ while (walne set) { that. A shirt hat in main Induced dysten . But . printle ("Broduces Winting ); anythe bound pined mant () i tool. A stant I ester (Enterrufiled Errefition e) { Back in other Abread Lysten. out-prints (e); thu.n=n; ushe set = true ; Lysten. out . printer (" let: "+"); · Bysten - out - printer (" Tell consumer"); elion. Jana notify (), 7 9 180 class Producer infolmed Russable lundran value lab = folici Qq; Syndromasist integet [] [ Producer (Q q) [ white (!walne.let) { this -9 =/9 i new Thread ( this, "Producer"). start (); I just hubie woid is (" bealand bloom of the makend t color (Interpolited English a) 1 while (123) [ (9) attive of the making

```
9. hut (1++);
class
     Consumer inflements Runnable of
       A 4;
       consumer (a q) f
          thin . 9 = 9;
         new Thread (this, "Consumer"). Start ();
     public word in () [
        int is of
        culite (i < 3) p
          int n = 9, get();
          System. Out . | winter (" Consumed ; "+1);
          £++ j
  4
                                  13/2/24
OUTPUT-1
  Put: 1
  Gest: 1
  Put: 2
  Goot: 2
  Put: 3
  Got: 3
```

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