```
    C\Users\aswin\Documents\diningphilos.exe

                                                                                                                                                                                    п
     #Includecatdlib.h>
     #includesothread.b>
     #includecsemaphore.h>
     #includeconistd.ho
                                                                                     Philosopher 0 has entered room
     sem t room;
                                                                                     Philosopher 3 has entered room
     sem t chopstick[5]:
                                                                                     Philosopher 2 has entered room
     void * philosopher(void *);
     void eat(int);
                                                                                     Philosopher 1 has entered room
     int main()
                                                                                     Philosopher 0 is eating
11 -
12 |
         int i.al51;
                                                                                     Philosopher 3 is eating
13
        pthread t tid[5]:
                                                                                     Philosopher 3 has finished eating
14
         sem init(%room,0,4);
                                                                                     Philosopher 0 has finished eating
15
        for(i-0;ic5;i++)
16
            sem init(&chopstick[i].0.1);
                                                                                     Philosopher 2 is eating
17
        for(1-0:1(5:1++)(
                                                                                     Philosopher 4 has entered room
18
            alil-i:
            pthread create(&tid[i].NULL,philosopher,(void *)&a[i]);
19
                                                                                     Philosopher 4 is eating
20
                                                                                     Philosopher 2 has finished eating
21
        for(i=0:is5:i++)
            pthread join(tid[i].WULL);
                                                                                     Philosopher 4 has finished eating
22
23
                                                                                     Philosopher 1 is eating
     void * philosopher void * num
24
                                                                                     Philosopher 1 has finished eating
25
26
        int phil-*(int *)num:
27
        sem wait(&room);
                                                                                     Process exited after 10.84 seconds with return value 0
28
        printf("\nPhilosopher %d has entered room".phil):
29
        sem wait(&chopstick[phil]);
                                                                                     Press any key to continue . . ._
30
        sem wait(&chopstick[(phil+1)%5]);
31
        eat(phil);
        sleep(2):
32
33
        printf("\nPhilosopher %d has finished eating",phil);
34
        sem post(&chopstick[(phil+1)%5]);
35
        sem post(&chopstick[phill);
36
        sem post(&room);
37
38
    void eat(int phil)
39
40
        printf("\nPhilosopher %d is eating",phil);
sources 🖣 Compile Log 📵 Debug 🚭 Find Results 🏚 Console
            31 Sel:
                             O Lines:
                                               41 Length:
                                                                   884 Insert
                                                                                     Done parsing in v. 17 1 seconds
```