

s\Dinesh\Documents\kousaly.cpp - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Classes Debug kousa.cpp kousal.cpp kousaly.cpp

```
1 #include<stdio.h>
2 #include<stdlib.h>
3 #include<pthread.h>
4 #include<semaphore.h>
5 #include<unistd.h>
6
7 sem_t room;
8 sem_t chopstick[5];
9
10 void * philosopher(void * );
11 void eat(int);
12 int main()
13 {
14     int i,a[5];
15     pthread_t tid[5];
16
17     sem_init(&room,0,4);
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

```
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- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Dinesh\Documents\kousaly.exe
- Output Size: 187.6533203125 KiB
```

Activate Windows

Dinesh\Documents\kousaly.cpp - [Executing] - Dev-C++ 5.11

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(globals)

sses Debug kousa.cpp kousal.cpp kousaly.cpp

```
17     sem_init(&room,0,4);
18
19     for(i=0;i<5;i++)
20         sem_init(&chopstick[i],0,1);
21
22     for(i=0;i<5;i++){
23         a[i]=i;
24         pthread_create(&tid[i],NULL,philosopher,(void *)a[i]);
25     }
26     for(i=0;i<5;i++)
27         pthread_join(tid[i],NULL);
28 }
29
30 void * philosopher(void * num)
31 {
32     int phil=*(int *)num;
```

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Compilation results...

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(globals)

Classes Debug kousa.cpp kousal.cpp kousaly.cpp

```
29
30 void * philosopher(void * num)
31 {
32     int phil=*(int *)num;
33
34     sem_wait(&room);
35     printf("\nPhilosopher %d has entered room",phil);
36     sem_wait(&chopstick[phil]);
37     sem_wait(&chopstick[(phil+1)%5]);
38
39     eat(phi1);
40     sleep(2);
41     printf("\nPhilosopher %d has finished eating",phil);
42
43     sem_post(&chopstick[(phi1+1)%5]);
44     sem_post(&chopstick[phi1]);
45     sem_post(&room);
```

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Compilation results...

- Errors: 0

DEV C:\Users\Dinesh\Documents\kousaly.cpp - [Executing] - Dev-C++ 5.11

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Project Classes Debug kousa.cpp kousal.cpp kousaly.cpp

```
35 |     printf("\nPhilosopher %d has entered room",phil);
36 |     sem_wait(&chopstick[phil]);
37 |     sem_wait(&chopstick[(phil+1)%5]);
38 |
39 |     eat(phi);
40 |     sleep(2);
41 |     printf("\nPhilosopher %d has finished eating",phil);
42 |
43 |     sem_post(&chopstick[(phil+1)%5]);
44 |     sem_post(&chopstick[phil]);
45 |     sem_post(&room);
46 }
47
48 void eat(int phil)
49 {
50     printf("\nPhilosopher %d is eating",phil);
51 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0

C:\Users\Dinesh\Documents\kousaly.exe

```
Philosopher 0 has entered room
Philosopher 1 has entered room
Philosopher 2 has entered room
Philosopher 2 is eating
Philosopher 3 has entered room
Philosopher 0 is eating
Philosopher 0 has finished eating
Philosopher 2 has finished eating
Philosopher 4 has entered room
Philosopher 3 is eating
Philosopher 1 is eating
Philosopher 1 has finished eating
Philosopher 3 has finished eating
Philosopher 4 is eating
Philosopher 4 has finished eating
-----
Process exited after 6.158 seconds with return value 0
Press any key to continue . . .
```