

```
else {  
    printf("The barber is going home for the day.\n");  
}  
}  
}
```

Lab Activity

Task1:

- a. Create an icecream eating contest problem protected by a semaphore lock. Use global variables icecreamremaining. Create 3 threads for 3 persons to eat icecreams until all are finished. But only one person will be given icecreamcone at a time by the salesman. So restrict access to icecreams so that only one thread can decrement it by using a semaphor. So use sem_wait and Sem_post in thread.
- b. get each person to count money from his wallet for the icecream payment which can take one to 2 seconds during which other person can acquire the salesman to sell him icecream. Redo the coding to accommodate this condition in your threads as well.

Task 2:

You need to synchronize customers at boarding lounge of an airport using semaphore. where there are 10 customers, each needs to weight his luggage, get it checked and get a boarding pass. During each task passengers are too bored that they sleep, weighting luggage takes 4 seconds sleep, security check for luggage needs 7 seconds sleep and getting boarding pass needs 3 seconds sleep.