OS LAB 9:

EXERCISE :1

#include<stdio.h>  
#include<stdlib.h>  
#include<pthread.h>  
#include<unistd.h>  
#include<semaphore.h>  
  
sem\_t s;  
  
void\* thread(void\* arg)  
{  
       sem\_wait(&s);  
       printf("entered\n");  
  
       sleep(4);  
  
       printf("exiting now\n");  
       sem\_post(&s);  
  
}  
int main()  
{  
  sem\_init(&s,0,1);  
  pthread\_t t1,t2,t3;  
  pthread\_create(&t1,NULL,thread,NULL);  
  sleep(1);  
  pthread\_create(&t2,NULL,thread,NULL);  
  sleep(1);  
  pthread\_create(&t3,NULL,thread,NULL);  
  
  pthread\_join(t1,NULL);  
  pthread\_join(t2,NULL);  
  pthread\_join(t3,NULL);  
  sem\_destroy(&s);  
  return 0;  
}

