TASK CODE SCREENSHOTS

cs182019_Lab09_Task.cpp | cs182019_Lab09_Assg.cpp

```cpp
#include <iostream>
#include <thread>
using namespace std;
int flag[2];

// cs182019 Lab 09 Task
int turn;
const int MAX =100;
int ans=0;

void lock_init()
{
    flag[0] =flag[1]=0;
    turn =0;
}

void lock (int self)
{
    flag[self] =1;
    turn = 1-self;

    while(flag[1-self]==1  && turn==1-self);
}

void unlock (int self)
{
    flag[self] =0;
}

void func(int s)
{
    int i =0;
    int self =s;
    cout<< "Thread Entered : " << self<<endl;

    lock(self);
    for(i=0; i<MAX;i++)
    {
        ans++;
    }
    lock(self);
    for(i=0; i<MAX;i++)
    {
        ans++;
    }
    unlock(self);
}

int main()

{
    lock_init();
    thread threadObj1(func,1);
    threadObj1.join();
    thread threadObj2(func,2);
    threadObj2.join();
    cout<<"Actual Count :  " <<ans<< " | Expected Count : "<<MAX*2<<endl;
    return 0;
}
```

TASK CODE OUTPUT