```
monitor Conference Room
int capacity
int entered

condition seats
bool speaking
```

enter() }

while (speaking || (entered == eapacity))

Seat 5. wait ();

entered = entered + 1;

Thread. Speaker {

Speaker Arrives() {

speaker Arrives () {
while (entered > 40) {
speaking = true;

// speak
speaking=false;

entered = 0;

seats, signal A11();

Thread Audience ?
enter()
{

repeat 3 { // produce 3 speakers

2

Monitor Conference Room & int entered int capacity

> Condition seats bool speaking

enter () 3 while ( speaking | (entered = = capacity))

seats, wait;

entered = entered+1;

speaker Arrives () { while (entered ==0) sleep (5000);

Speaking = frue

// talks

speaking = Palse

entered = 0

seats. signal All

Thread Speaker & Speaker Arrives() sleep (5000);

Thread person & enter ()

book 5 ex. le Blacal donations sem get-bed [4]; The Beds
The Magazines shared resource sem get\_mag[18]; Donor & int mag = 0; It to know it you have a mag int bed = 0; " to know if you have a bed thread bed 3 thread mag & acquire (get\_bed) acquire (got\_mag) bed = 7 if ( bed == 7) release (get inaq) if (mag == 1) { dee 3. mag = 0 telease (get\_mag) mag=7 11 read Maive blood bed=0 releace (get-bed) if (beed == 0) mag = 0 release (get-mag)