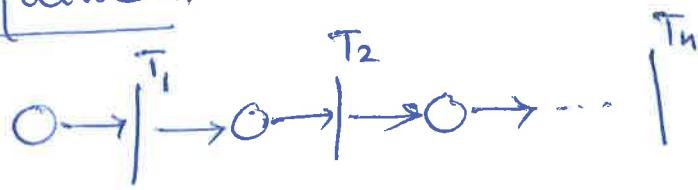


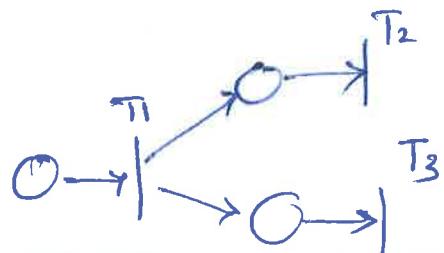
# Petrinet Modeling Examples

## Sequence:



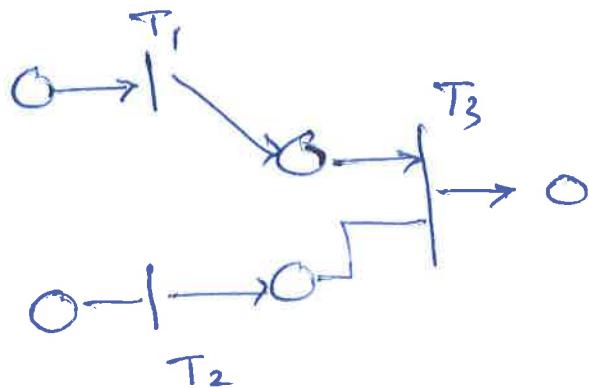
web services are invoked in the sequential order

## AND Split:



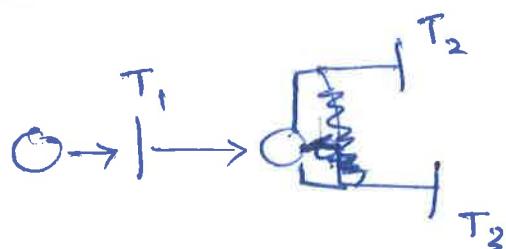
when  $T_1$  is done  
both  $T_2$  and  $T_3$  will be  
executed in parallel (splitting  
the control to both  
web services at the same time)

## AND Join:



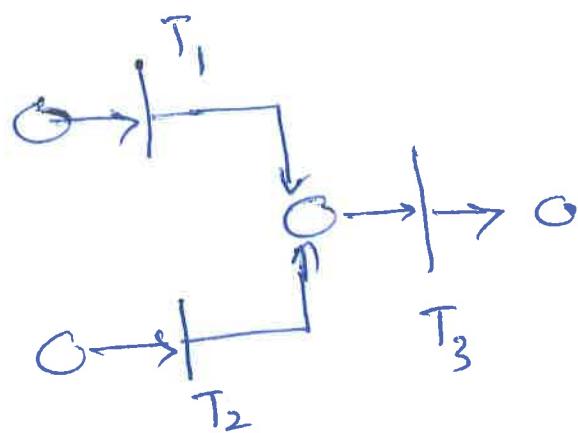
$T_3$  will be executed  
once  $T_1$  and  $T_2$  (both)  
are done.

## OR Split:



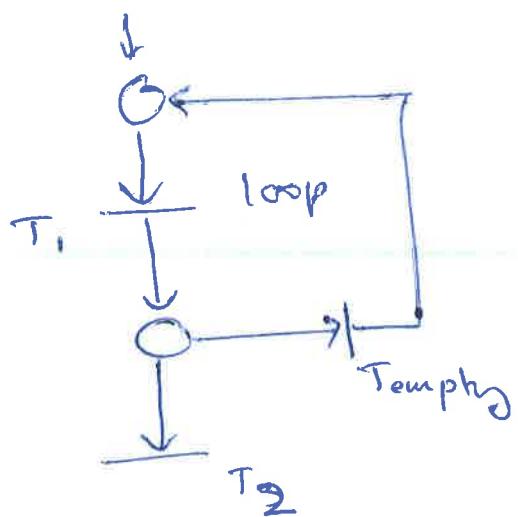
after  $T_1$  is done  
both  $T_2$  and  $T_3$  are  
enabled, but only  
one of them can  
fire.

## GR join:



$T_3$  will be enabled with either  $T_1$  or  $T_2$  firing. So,  $T_3$  doesn't need to wait for both.

## Loop:



When  $T_1$  is done it will be enabled again if  $T_{empty}$  fires.

## Mutual exclusion

only one process can enter into the critical section at a given time

This can be extended to any number of processes/threads.

