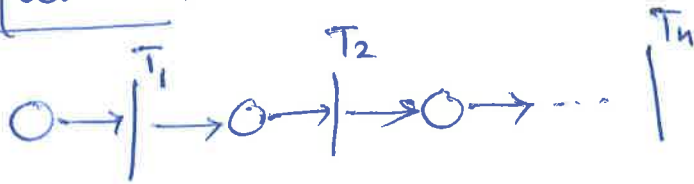


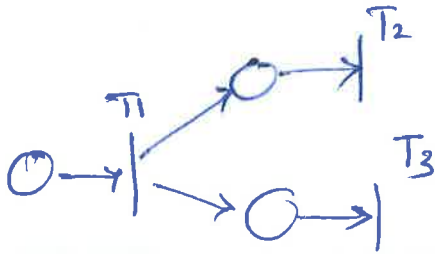
# Petrinet Modeling examples

## Sequence:



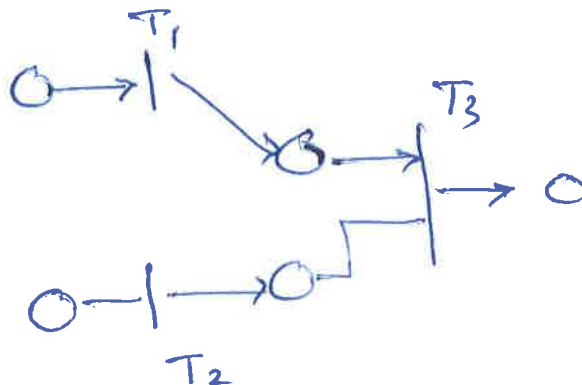
web services are invoked in the sequential order

## AND Split:



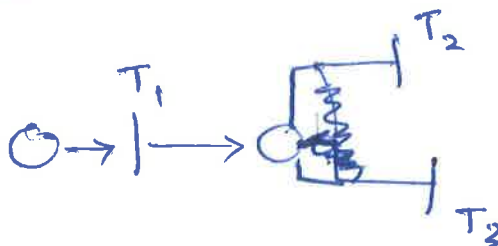
when  $T_1$  is done both  $T_2$  and  $T_3$  will be executed in parallel (splitting the control to ~~both~~ both web services at the same time)

## AND Join:



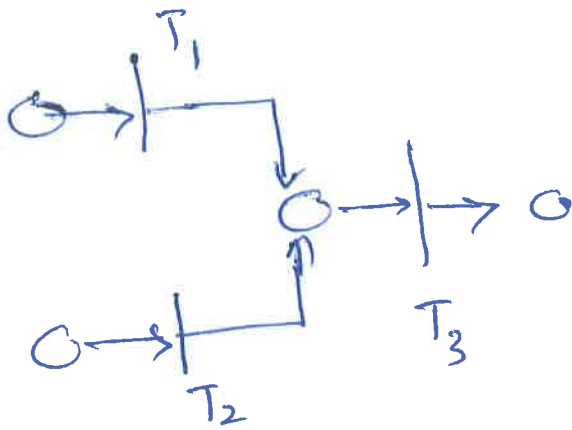
$T_3$  will be executed once  $T_1$  and  $T_2$  (both) are done.

## OR Split:



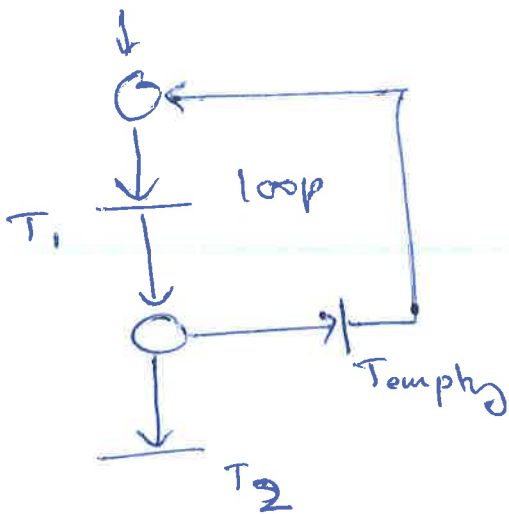
after  $T_1$  is done both  $T_2$  and  $T_3$  are enabled, but only one of them can fire.

## OR join:



$T_3$  will be enabled with ~~either~~ 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~~ 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.

