Tutorial - 2

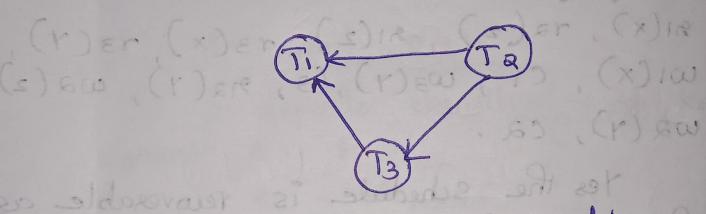
- Détermine if the following schedule is revoverable? Is the schedule cascadeles? Justify your answer.
- =) 91(x), 72(2), 91(2), 93(x), 93(Y), 91(X), 91(X),

Tes the schedule is revoverable as the order of write $T_1 \rightarrow T_3 \rightarrow T_2$. Rence revoverable.

cascadeless as a commit has been done for each transactions write operation.

D'check if the following schedules are conflict serializable using precedence graph, if so give the equivalent social schedule

$$73(x)$$
, $72(x)$, $\omega 3(x)$, $71(x)$, $\omega_{1(x)}$
 $73(x) \rightarrow \omega_{1}(x)$
 $73(x) \rightarrow \omega_{1}(x)$



les conflict serializable.

equivalent serial schedule: = T2 > T3 > T1

3 Determine if the following schedule is serializable or not

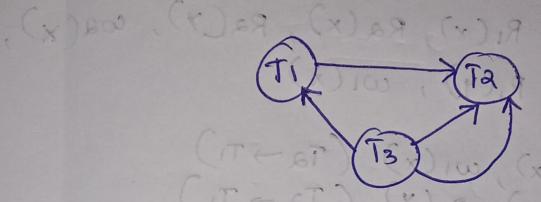
91(x) 92(2) 91(2) 93(x) 23(Y) 61(x)

63(Y) 22(2) (Time Tax)

ciporp

lois

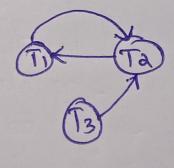
=) 91,(2), $\omega_{A}(2)$ ($T_{1} \rightarrow T_{2}$) 93(x), $\omega_{1}(x)$ ($T_{3} \rightarrow T_{1}$) 93(x), $\omega_{A}(x)$ ($T_{3} \rightarrow T_{2}$) 93(x), 93(x) ($T_{3} \rightarrow T_{2}$)



It is conflict serialisation and order is 73 -> 7, -> 72

9 check whether the given schedules are conflict serializable or not SI: RI(X) R2(X) RI(Y) R2(Y) R3(Y) W1(X) W2(Y)

Ra(x), wi(x) (Ta >Ti) $R_i(Y)$, $\omega_a(Y)$ $(\tau_i \rightarrow \tau_a)$ R3(4), W2(4) (T3 -> Ta)

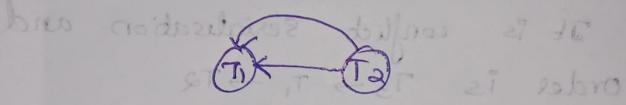


not conflict Scrialisable since there is a

loop from Ti to Ta

Sa: $R_1(x)$, $R_2(x)$, $R_2(y)$, $\omega_2(y)$, $R_1(y)$, $\omega_1(x)$

 $= R_2(x), \omega_1(x) (T_2 \rightarrow T_1)$ $\omega_2(y), R_1(y) (T_2 \rightarrow T_1)$



It is conflict serializable and order is Ta, T,

(x) wi(x) wa(y)

SI: RI(X) Pa(X) Ra(Y) Ra(Y)

(x), (x),