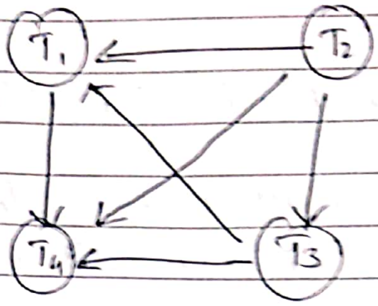
Name :- Ankit Borkar
SRN :- PES1UG21CS805

DATE

①

T1	T2	T3	T4
	R(x)		
		W(x)	
W(x)			
	W(Y)		
	R(Z)		
			R(X)
			R(Y)



No cycle / loop ; schedule is conflict serializable

②

Read (x) :
x : x - 50
~~Ax~~Write (x)
Read (Y)
Y : Y+50
Write

ACID : Atomicity :- transaction in happening in its etirety.

Consistency :. Both the transaction are happening without inteference and more from one consistent state to other.

Isolation → Both the transaction are isolation from each other (no interference)

Durablity → Both the traction are getting committed & no rollback in happening (All changes saved)

Q3)

T1	T2
R(X)	
R(Y)	
W(X)	R(x)
	R(Y)
	R(X)
	W(X)
	W(Y)

(i) Write Read Conflict happens b/w W(X) & R(X) in T2
↓
T1

(ii) Read-write Conflict b/w R(x) in T1 & W(x) in T2
R(Y) in T1 & W(Y) in T2

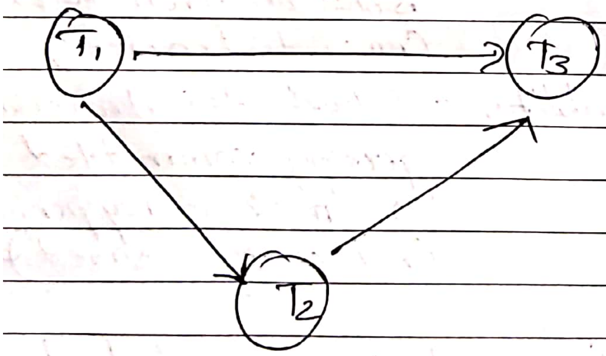
(iii) write b/w W(x) in T1 & W(x) in T2

```
db.posts. fin one({}, {_id:0, post_test:1})

Match (M: Movies)

WHERE M: release = 2000
RETURN m.title, m votes
```

T_1	T_2	T_3
	R(Y)	
R(X)		
		R(Z)
R(Y)		
W(X)		
	R(Z)	
	W(Y)	
		R(X)
		W(Z)

P : S in conflict serilizable

Q If T_3 commts before T_1 finieshe, then S is recoreable



No cycle, p is true
&
Q is ~~fa~~ false.