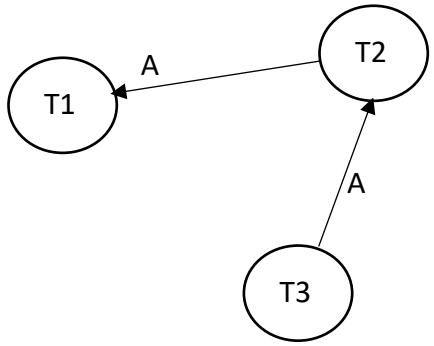
Exercise Wait Graph

Exercise 1:

T1	T2	T3
R(A)		
	R(B)	
	W(A)	
	Commit	
W(A)		
Commit		
		W(A)
		Commit

2PL

T1	T2	T3
S(A)		
R(A)		
	S(B)	
	R(B)	
	Waitlock(A)	
X(A)		
W(A)		
Commit		
Unlock (A)	X(A)	Waitlock(A)
	W(A)	
	Commit	
	Unlock(B)	
	Unlock(A)	X(A)
		W(A)
		Commit
		Unlock(A)



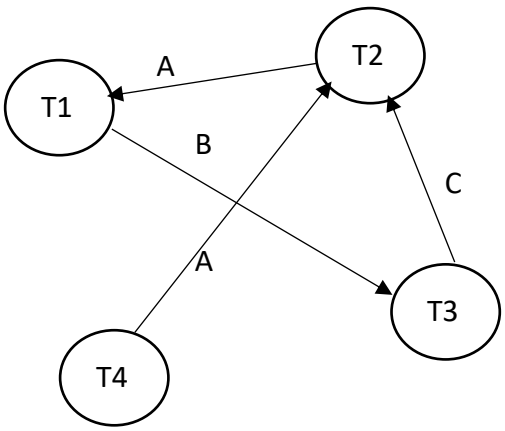
No Deadlock

Exercise 2:

T1	T2	T3	T4
R(A)			
	R(c)		
		R(B)	
			R(D)
	W(A)		
		W(C)	
			W(A)
W(B)			
Commit			
	Commit		
		Commit	
			Commit

2PL

T1	T2	T3	T4
S(A)			
R(A)			
	S(C)		
	R(C)		
		S(B)	
		R(B)	
			S(D)
			R(D)
	Waitlock(A)		
		Waitlock(C)	
			Waitlock(A)
Waitlock(B)			



There is a deadlock in the graph between the transactions T1, T2 and T3.
Solution: Aborting T3