**EXPERIMENT NO. 6**

**Aim: -** To implement different deadlock Avoidance protocol in Distributed Database System

**Theory: -** Deadlock and all deadlock avoidance protocol

1. Wait Die
2. Wound Wait

**Implementation:-**

1. **Algorithm For Wait-Die:**

**(Input: Timestamp for 5 transaction as (Ta=10, Tb=20, Tc=05, Td=25, Te=30)**

/\* Ta is requested a lock already held by Tb\*/

If (ts(Ta) < ts(Tb)) *// i.e. Ta :Older and Tb: Younger*

Then

Ta waits for Tb to finish or abort; *//As Ta is older,* it waits *for Tb; Print this*

Else

Ta Dies; *//Because Ta is younger, Ta dies; Print this*

End if;

1. **Algorithm For Wound-Wait:**

**(Input: Timestamp for 5 transaction as (Ta=30, Tb=20, Tc=25, Td=10, Te=05)**

/\* Ta is requested a lock already held by Tb\*/

If (ts(Ta) < ts(Tb)) // i.e. Ta :Older and Tb: Younger

Then

Ta wounds Tb; //As Ta is older, it wounds Tb to either finish or abort; *Print this*

Else

Ta Waits; //Because Ta is younger, Ta Waits; *Print this*

End if;