**TAFL-(RCS453) Lab**

**Please do solve all the problems in your note book and perform in Scheduled Lab.**

**Objective 1: DFA implementation using JFLAP 7.0 platform.**

**Construct a DFA machine and also write 5 tuple with transition graph for the following:-**

1. Design a DFA machine for L**= {w: |w|mod3=0}.**
2. Design a DFA machine which accepts set of all strings over **∑={0,1}**

Where binary no. is divisible by 3.

1. Design a DFA for set of all **ODD size** strings over the alphabet ∑**= {a, b}.**
2. Design a DFA for all strings having size
3. **Atleast 3**
4. **Atmost 3**
5. **Exactly 3**

Over the alphabet **∑={a,b}.**

1. Design a DFA machine which accepts the language consisting of all strings in which no. of “a” is divisible by 3 and no. of b is divisible by 4.

Here, it means**(** **na(w)mod3=0 , nb(w)mod4=0)**

1. Design a DFA for **L={w: n0(w)mod4>=2,w belongs to {0,1}\*}.**
2. Design a DFA for all **String starting with aba.**
3. Design a DFA for all **string ending with 100.**
4. Design a DFA for all String which are **started either a or b and**

**ending with either a or b.**