Unit:-1

1. Write the difference between DFA and NFA with one example?
2. Give a NFA for Σ={a,b} that accepts any string with ‘ab’ as a sub String. Hence construct equivalent DFA?
3. Design a DFA to accept string with c and d such that no of d’s are divisible by 4?
4. What are the limitations of finite state machine and also give the applications of finite state machine?
5. Design a Moore machine for 2’s complement if binary number?
6. Give ε-NFA for string of the form 01*0*1 over the alphabet Σ={0,1}.Convert it to NFA without ε-Moves .