**ASSIGNMENT CD**

1. Explain phases of compiler with diagram
2. Write short note on TOP down and Bottomup parser.
3. What is the difference between compiler and interpreter
4. Explain role of lexical analyser
5. Explain **left factoring**
   1. S → iEtS | iEtSeS | a E → b

2)

A ⇒ aB | aC | aD B ⇒ b

C ⇒ c

D ⇒ d

1. Eliminate the left recursion from the grammar E → E + T|T

T → T \* F|F F → (E)|id

1. convert DFA for (a+b) \*abb without constructing NFA
2. Find out **FIRST and FOLLOW** for the following grammar.

S→ AaAb | BbBa A → ϵ

B → ϵ

1. Construct LL(1) parsing table for the following Grammar: E -> E+T | T

T -> T\*F | F

F -> (E) | a

1. Construct LL(1) parsing table for the following Grammar:

S -> aAC | bB

A -> Abc | Abd | e B -> f | g