

CS6109 - COMPILER DESIGN – LAB

Week 12 – 22.11.2022

(Observations)

1. Validate and evaluate the given expression using the Boolean expression and flow of control statements rules using backpatching.

Input 1:

```
if ( a==b && ( c==d || e == f ) ) x == 1;
```

Input 2:

```
if( a<b || !(c<d)) then  
  x = y - z + p
```

2. Using Lex and yacc validate the if-else construct using dangling else Grammar.

```
Stmt → if Expr then Stmt | if Expr then Stmt else Stmt | a  
Expr → b
```

Input: ibtibtaea , ibtaea

3. Write a program to validate and evaluate the infix, prefix and Postfix using LEX and YACC.