Compiler Lab
Assignment 4

Problem Description:

In this assignment, you will need to include production rules using Flex and Yacc. Task will be like checking any syntactical error. If it is found print 'Compilation Error' or if is not found print 'Compiled Successfully'. For simplicity, you don't need to write production rules for all syntax. You will just write production rules for following:

1. Normal Assignment with addition and subtraction
2. if-else

*3 for/while loop

In lab class, it has been shown that where should you write production rules. So, explore that more and more. After submitting the assignment via email, you will show me the working. Task-1 and Task-2 is mandatory. Task-3 will add bonus marks.

Submission Deadline: Sunday, 16-10-2016 (via email (tahsina.hashem@juniv.edu) first, then you must meet with me on Sunday.

Sample Context Free Grammar for if-else statements:

```
stmt --> IF LPAREN bexp RPAREN stmt
stmt --> IF LPAREN bexp RPAREN stmt ELSE stmt
stmt --> ID ASSIGN bexp SEMICOLON
bexp --> bexp OR bterm | bterm
bterm --> bterm AND bfactor | bfactor
bfactor --> NOT bfactor | bvalue
bvalue --> TRUE | FALSE | LPAREN bexp RPAREN
```