# Assignment 9:READ ME

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To Build:
"make"
To Run:
"./tac <[inputfile]"

output will be generated in the file "output.txt" and symbol table in "SYMTAB.txt"

NOTES:
>I have done explicit type checking in expression blocks for int-float clashes only [as mentioned in assignment]
Other non-trivial type clashes will give error [also float can hold an int by explicit typeconversion
but the reverse will give error]

I have made some changes in the given grammer [functionality is all the same]:
1>
stmt :
assignmentStmt SEMICOLON
|readStmt SEMICOLON
|printStmt SEMICOLON

stmtList:
        stmtList M1 stmt
        |M2 stmt
These are some semicolon issues. Kindly note the  given input sets will have a slight syntax error in my parser due to semicolon at the end of the declararion

        GIVEN VERSION :
        def
                a:int;
                b:int;
                sum:float;
                xpos:float;
                ypos:float;
                temp: float     [notice no semicolon so will give syntax error]
        end
        However,
        def
                a:int;
                b:int;
                sum:float;

xpos:float;
ypos:float;
temp: float;     [will work perfectly]
end

All these modified test cases are given in 3 test files , test1.txt[compiles properly],test2.txt[compiles properly],test3.txt[have error due boolean integer type clash..temp=1 but temp is a boolean!!]

2> I have introduced proper Markers for inheritted attributes

3>    bExp ---> LEFT_PAREN M16 bExp RIGHT_PAREN was giving conflicts. So parenthesis in bExps have to in {}.This is not part of the grammer ,but I have introduced them to save some coding

So The Modified Rule :

bExp --> LEFT_BRACES M16 bExp RIGHT_BRACES