

Assignment on Intermediate Code Generation:

Write the YACC program to implement the Syntax-Directed definition for translating *assignment statements, if statements, if-else statements, while statements* to three-address code. The assignment statements need to be type checked. Use quadruple-record structure for the representation of three-address code. The three address statements have to be sent to an output file.

Quadruple is a record structure with four fields for the three-address statements.

As for example: **a = b * - c**

Label	op	Arg1	Arg2	Result
00	uminus	c		T1
01	*	b	T1	T2
02	=	T2		a

Here T1, T2 ... are the compiler generated temporary names.

Contents of the file should be:

```
00 T1 = - c
01 T2 = b * T1
02 a = T2
03
```