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***SOURCE CODE***

**Source Code for while.y (yacc input specification file)**

%{

#include<stdio.h>

%}

%token WHILE DIGIT ID

%right '='

%left '<'

%left '+' '-'

%%

s:s1 { printf("\nhurray !!! This is a Valid While Construct\n"); }

;

s1:s2'\n's2'\n's3

;

s2:ID'='DIGIT';'

;

s3:WHILE' ''('ID'<'ID')''{''\n's4'\n's4'\n''}'

;

s4:ID'='ID'+'ID';'

|ID'='ID'-'DIGIT';'

;

%%

int main()

{

printf("Enter the construct : ");

yyparse();

return 0;

}

int yyerror(

{

printf("\nNopse Not a Valid while Construct\n")

return 0;

}

**Source Code for while.l (lex input specification file)**

%{

#include "y.tab.h"

%

%%

while {return WHILE;}

[a-zA-Z]+ {return ID;}

[0-9]+ {return DIGIT;}

[\<\>\+\-\\*\/\=\;] {return yytext[0];}

[\(\)\{\}] {return yytext[0];

[ \t\n] {return yytext[0];}

. {return yytext[0];}

%%