**Experiment No: 5**

**Lex code:**

**%{**

**# include<stdio.h>**

**# include "y.tab.h"**

**%}**

**L [A-Za-z]**

**D [0-9]**

**id {L}({L}|{D})\***

**%%**

**"int" {return INT;}**

**[0-9]+ {return INUM;}**

**{id} {return id;}**

**[,;=] {return yytext[0];}**

**\n {}**

**%%**

**int yywrap()**

**{**

**return 1;**

**}**

**Yacc code:**

**%{**

**#include <stdio.h>**

**#include <stdlib.h> // Added for the exit() function**

**%}**

**%start S**

**%token id INT INUM**

**%%**

**S : S DL { printf("Declaration accepted\n"); }**

**| DL { printf("Declaration accepted\n"); }**

**;**

**DL : INTV ';'**

**;**

**INTV : INT IV**

**;**

**IV : I**

**| IV ',' id**

**| IV ',' id '=' INUM**

**| id '=' INUM**

**;**

**I : id**

**;**

**%%**

**int main()**

**{**

**printf("Enter Valid Declaration\n");**

**yyparse();**

**return 0;**

**}**

**int yyerror(char \*msg)**

**{**

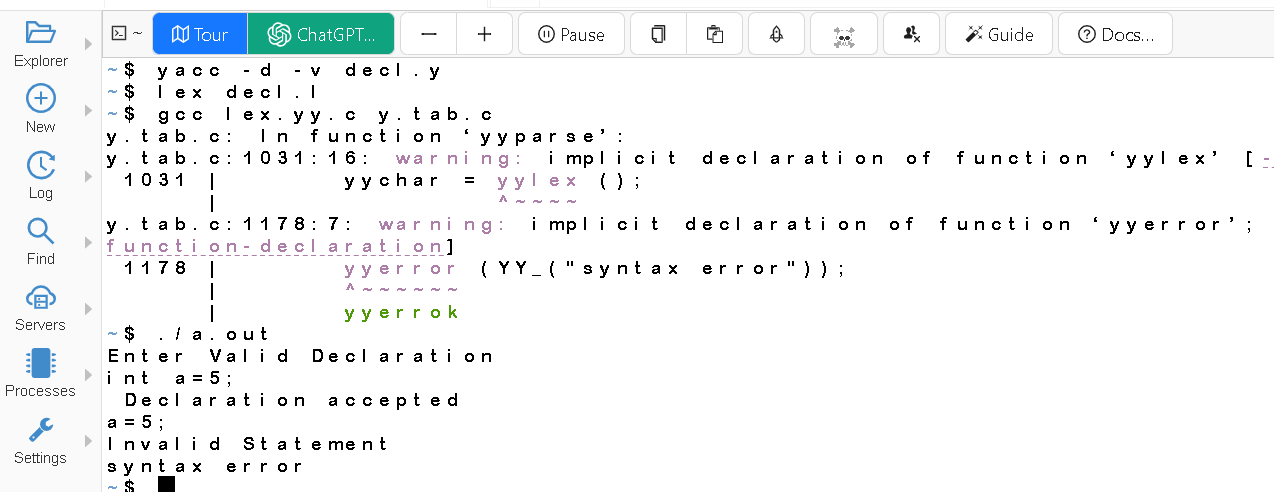
**printf("Invalid Statement\n");**

**printf("%s\n", msg);**

**exit(1); // Changed square brackets to parentheses for exit() function**

**}**

**Output:**

****