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**King Saud University**

**College of Computer and Information Sciences**

**Computer Science Department**

*CSC 340 – Assignment (3) report*

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**Section: 53505**

**Picture of the assign1.y code**

**Text

Description automatically generated with medium confidence**

**Picture of the assign1.l code**

Text

Description automatically generated

**Assign1.y Code**

**%{**

**void yyerror (char \*s);**

**extern int yylex();**

**#include <stdio.h>**

**#include <stdlib.h>**

**#include <ctype.h>**

**%}**

**%union {int i;}**

**%token <i> INT**

**%type <i> E**

**%%**

**S : E {printf("the output is : %d", $1);}**

**;**

**E : INT '+' E {$$ = $1 + $3;}**

**| INT '\*' E {$$ = $1 \* $3;}**

**| '(' E ')' {$$ = $2;}**

**| INT {$$ = $1;}**

**;**

**%%**

**int main (void) {**

**yyparse();**

**return 0;**

**}**

**void yyerror (char \*s) {fprintf (stderr, "%s\n", s);**

**exit(1);}**

**Assign1.l Code**

**%{**

**#include <stdio.h>**

**#include <stdlib.h>**

**#include "assign1.tab.h"**

**%}**

**%option noyywrap**

**%%**

**[0-9]+ {yylval.i = atof(yytext); return INT;}**

**"+"|"\*"|"("|")" {return yytext[0];}**

**[ \n\t\f\v] {return 0;}**

**. {return 0;}**

**%%**

**Picture of the output, THERE IS ( 5 ) PICTURE**

Graphical user interface, text, application

Description automatically generated Graphical user interface, text

Description automatically generated Graphical user interface, text, application

Description automatically generated Text

Description automatically generated Text

Description automatically generated