# Practical-5

%{

#include <stdio.h>

#include <string.h>

void decimal\_to\_hex(int num) {

char hex[100];

int i = 0, remainder;

if(num == 0) {

printf("0x0\n");

return;

}

while(num != 0) {

remainder = num % 16;

if(remainder < 10) hex[i++] = remainder + '0';

else hex[i++] = remainder - 10 + 'A';

num /= 16;

}

printf("0x");

for(int j = i - 1; j >= 0; j--) printf("%c", hex[j]);

printf("\n");

}

int string\_to\_int(char \*str) {

int result = 0;

for(int i = 0; str[i] != '\0'; i++)

result = result \* 10 + (str[i] - '0');

return result;

}

%}

%%

[0-9]+ { decimal\_to\_hex(string\_to\_int(yytext)); }

.|\n { ECHO; }

%%

int main() {

printf("Enter decimal numbers (Ctrl+D to end):\n");

yylex();

return 0;

}

int yywrap() { return 1; }



