

**Compiler Construction Lab**

**Practical 5**

**Submitted To:**

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**PRACTICAL 5**

**AIM - Conversion of decimal to hexadecimal number in a file.**

| %{  #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]);  }  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;  } |
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| suhami@LAPTOP-OTTF73G6:~/CC$ lex file\_5\_084.l  suhami@LAPTOP-OTTF73G6:~/CC$ cc lex.yy.c -ll  suhami@LAPTOP-OTTF73G6:~/CC$ ./a.out  Enter decimal numbers (Ctrl+D to end):  12  0xC  789  0x315  1  0x1  0  0x0  234  0xEA |
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