# Department of Computer Science and Engineering National Institute of Technology, Rourkela

Course Code: CS3075 Course Name: Compiler Design Laboratory

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**Assignment No.:5** 

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## **QUESTION 1**

### WRITE A FLEX CODE TO PRINT THE TOKENS.

```
/* just like Unix wc */
#include<stdio.h>
%}
%%
[0-9]+ {printf("%d ",atoi(yytext));}
      {printf("ADD \n");}
"_"
      {printf("SUB \n");}
      {printf("MUL \n");}
      {printf("DIV \n");}
      {printf("ABS \n");}
"("
      {printf("MYSTERY \n");}
")"
      {printf("MYSTERY \n");}
%%
int main(int argc, char **argv
yylex();
return 0;
int yywrap(){
return 1;
```



### **QUESTION 2**

# WRITE A FLEX CODE TO PRINT TOKENS USING ENUMERATIONS

# **CODE**

}

```
/* just like Unix wc */
%{
#include<stdio.h>
enum{NUMBER =258,ADD,SUB,MUL,DIV,ABS,EOL};
%}
%%
[0-9]+ {printf("%d enum %d \n",atoi(yytext),NUMBER );}
"+"
      {printf("ADD enum %d \n",ADD);}
"_"
     {printf("SUB enum %d \n",SUB);}
      {printf("MUL enum %d \n",MUL);}
"/"
      {printf("DIV enum %d \n",DIV);}
"|"
      {printf("ABS enum %d \n",ABS);}
"\n"
      {printf("EOL enum %d \n",EOL);}
     {printf("SPACE \n");}
%%
int main(int argc, char **argv)
yylex();
return 0;
int yywrap(){
return 1;
```

