2CS701 Compiler Construction

Lab-1 Task

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<u>Aim:</u> To implement lexical analyze to recognize all distinct token classes

Code:

```
%{
    #include<stdio.h>
    int i=0;
%}
%%
{
    "while"|"if"|"else" |"int"|"float"
                                             {i++;printf("\t
keywords : %s", yytext);}
    [a-zA-Z_][a-zA-Z0-9_]*
                                             {i++;printf("\t
identifiers : %s", yytext);}
    "{"|"("|"}"|")"
                                             {i++;printf("\t
separators: %s", yytext);}
                                             {i++;printf("\t
    [+*/><==&^]
operators: %s", yytext);}
                                             {i++;printf("\t
    [0-9]+
constant: %s", yytext);}
}
```

```
%%
int yywrap()
{
    return 1;
}
int main()
{
    yylex();
    printf("\n total no. of token = %d\n", i);
}
```

Output: