```
%{
        #include <stdio.h>
        #include <stdlib.h>
        #include <string.h>
        char in_str[100];
        int line_no = 1;
        void quicksort(char *arr, int p, int r);
        int partition(char *arr, int p, int r);
%}
%%
[\n]
        {
        line_no++;
}
[a-zA-Z]+
                {
        char yy_str[100];
        int k;
        for(k=0; k<yyleng; k++)</pre>
                yy_str[k] = yytext[k];
        yy_str[yyleng] = '\0';
        if(yyleng == strlen(in_str))
        {
                char *yytext_str = yytext;
                quicksort(yytext_str, 0, yyleng-1);
                int count=0;
                int i;
                for(i=0; i<yyleng; i++)</pre>
                        if(yytext_str[i]==in_str[i])
                                 count++;
                        }
                        else
                                 break;
                fprintf(yyout, "ANAGRAM [ %s ] present at line number : %d.\n",yy_str,
line_no);
}
        {}
%%
void quicksort(char arr[], int p, int r)
{
        if(p<r)</pre>
                int q = partition(arr, p, r);
                quicksort(arr, p, q-1);
                quicksort(arr, q+1, r);
        }
}
int partition(char arr[], int p, int r)
```

```
int x = arr[r];
         int i = p-1;
         int j;
         for(j=p; j<r; j++)
                 if(arr[j]<=x)</pre>
                           i = i+1;
                           char temp = arr[i];
                           arr[i] = arr[j];
                           arr[j] = temp;
                  }
         }
         char temp = arr[i+1];
         arr[i+1] = arr[r];
         arr[r] = temp;
         return i+1;
}
int main()
         char in_file_name[100];
         printf("Enter the input file name : ");
scanf("%123s",in_file_name);
         printf("Enter the string : ");
         scanf("%s",in_str);
         quicksort(in_str, 0, strlen(in_str)-1);
        extern FILE *yyin;
extern FILE *yyout;
        yyin = fopen(in_file_name, "r");
         if(yyin == NULL)
                 printf("\nError!!!\nCan't open the file.\n");
        yyout = fopen("output_file.cpp", "w");
        yylex();
         fclose(yyin);
         fclose(yyout);
         return 0;
}
```