Assignment 3

1. Write a LEX program that copies a file, replacing each nonempty sequence of white spaces by a single blank.

```
s[ ]
%%
[ ]([ ])* { /* Pattern for recognizing multiple spaces */
 fprintf(yyout," ");
 }
([ ])*(\n)([ ])* { /* spaces followed by newline followed by
spaces */
 fprintf(yyout," ");
}
%%
int main()
{
// Point yyin to a file with text, this acts as input to
our program
 yyin = fopen("text1.txt","r");
// Point yyout to output file.
yyout = fopen("text2.txt","w");
 yylex();
 return 0;
}
```
2. Write a LEX program to remove the comments from a c file.

2. Write a LEX program to recognize the following tokens over the alphabets {0,1,..,9}

   a) The set of all string ending in 00.

   b) The set of all strings with three consecutive 222's.

   c) The set of all string such that every block of five consecutive symbols contains at least two 5's.