/* A6: Write a LEX program that converts a file to “Pig Latin”. Specifically, assume the file is a sequence of words (groups of letters) separated by whitespace. Every time you encounter a word:
(a) If the first letter is a consonant, move it to the end of the word and then add ***ay***.
(b) If the first letter is a vowel, just add ay to the end of the word.
All non-letters are copied intact to the output. */

File: A6.l

```
c[a-zA-Z]
vowel[aeiouAEIOU]
cons[^aeiouAEIOU]

%%

{vowel}{c}* {
            /* First character is vowel */
            /* copy yytext into an array and append "ay" to it */
            char s[100];
            strcpy(s,yytext);
            strcat(s,"ay");
            printf("%s ",s);
            fprintf(yyout,"%s",s);
          }

{c}{c}* {
            /* First character is consonant */
            /* copy yytext into an array except first character
and then add the first character and append "ay" to it */
            char s[100];
            strcpy(s,yytext+1);
            printf("%s%cay ",s,yytext[0]);
            fprintf(yyout,"%s%cay",s,yytext[0]);
      }
%%

int main()
{
        printf("The output is : \n");
        yyin = fopen("A6_input.txt","r");
        yyout = fopen("A6_outputfile1.txt","w");
        yylex();
        printf("\n\n\n\n\n");
        fclose(yyin);
        fclose(yyout);
        yyin = fopen("A6_outputfile1.txt","r");
```

```
        yyout = fopen("A6_outputfile2.txt","w");
        yylex();
        printf("\n");
        return 0;
}
```

File: A6_input.txt

```
Many of Lifes failures are people who did not realize how close
they were to success when they gave up- Thomas Edison
```