

Code 1:

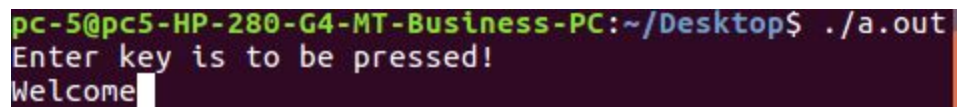
```
%option noyywrap
%{
    #include<stdio.h>
}%

%%

\n { printf("Welcome");}
%%

int main(){
    printf("Enter key is to be pressed!");
    yylex();
    return 0;
}
```

Output:



```
pc-5@pc5-HP-280-G4-MT-Business-PC:~/Desktop$ ./a.out
Enter key is to be pressed!
Welcome
```

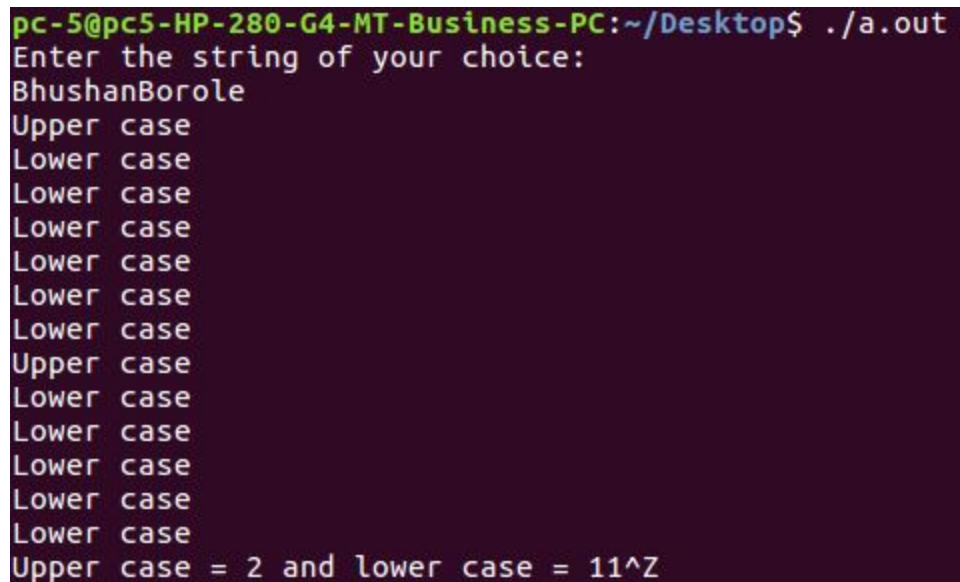
Code 2:

```
%option noyywrap
%{
    #include<stdio.h>
    int lower = 0;
    int upper = 0;
}%

%%
[A-Z] {printf("Upper case\t\n"); upper++;}
[a-z] {printf("Lower case\t\n"); lower++;}
\n {printf("Upper case = %d and lower case = %d", upper, lower);}
%%

int main(){
    printf("Enter the string of your choice: \n");
    yylex();
    return 0;
}
```

Output:



```
pc-5@pc5-HP-280-G4-MT-Business-PC:~/Desktop$ ./a.out
Enter the string of your choice:
BhushanBorole
Upper case
Lower case
Lower case
Lower case
Lower case
Lower case
Lower case
Lower case
Lower case
Upper case
Lower case
Lower case
Lower case
Lower case
Lower case
Upper case = 2 and lower case = 11^Z
```

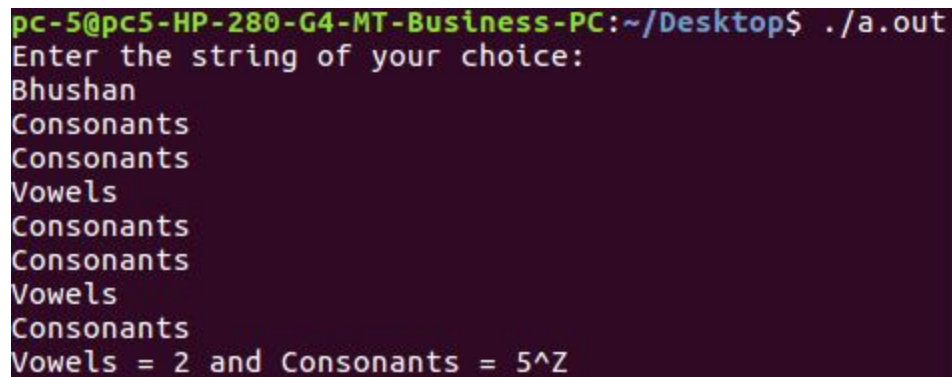
Code 3:

```
%option noyywrap
%{
    #include<stdio.h>
    int vowel = 0;
    int consonants = 0;
}%

%%
[aeiouAEIOU] {printf("Vowels\t\n"); vowel++;}
[^aeiouAEIOU\n] {printf("Consonants\t\n"); consonants++;}
\n { printf("Vowels = %d and Consonants = %d",vowel,consonants);}
%%

int main(){
    printf("Enter the string of your choice: \n");
    yylex();
    return 0;
}
```

Output:



```
pc-5@pc5-HP-280-G4-MT-Business-PC:~/Desktop$ ./a.out
Enter the string of your choice:
Bhushan
Consonants
Consonants
Vowels
Consonants
Consonants
Vowels
Consonants
Vowels = 2 and Consonants = 5^Z
```