ANTRIKSH SHARMA 20070122021

CC LAB 03 | Lex Program

Aim: Count number of words starting with 'A'

Implementation:

```
%option noyywrap
%{
    #include <stdio.h>
    int a_count =0;
%}
alpha
        [a-zA-Z]
digit
           [0-9]
space [ \t\n]
start
           ^a
{start} {a_count++;}
{space}[a|A][{alpha}|{digit}]* {a_count++;}
end return 0;
%%
int main(int argc, char *argv[])
    if (argc==2) {
       yyin=fopen(argv[1],"r");
    else {
        printf("\nEnter the input:\n");
        yyin=stdin;
    yylex();
    printf("\nWords Starting with A: %d\n", a_count);
    return 0;
```

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Input File:

```
Assignment 03 > \( \sigma\) input.txt

1 lorem ipsum
2 dolor sit
3 amet. abcd
4 efgh ijkl hello
5 antriksh
```

Output: