OBSERVATION

1. Match any string of one or more characters that do not Proclude lower case a - 2.

% option noyywrap 10 8 # include < stdio. h>

% 2

%0%

[A-Z]+[It(n).1,] { printf("matched string:"/osln", yytext);} 0/00/0

int main ()

printt (= Enter the string: "); yylex();

retumo;

Output:

Enter the string: Write a PROGRAM printing HELLOWORLD

matched string : PROGRAM

matched string: HELLOWORLD

```
Match one or more occurrences ab concatenated
  % option noyywrap
  0/08
   #include < stdio h>
  % 2
  %%%
  (ab) + [ + [n]. ] & printf ( - matched string: %s \n", yytext); 3
  0/0%
  int main ()
   printf ( : Enter the string : ");
    yylex ();
     returno;
   Output;
    Enter the string: apple ab ant abab aeroplane
    matched string: ab
     matched string: abab
3) Write the lex program to find the token and its count
   from input the file for following.
   % option noyywrap
   905
      # Include < stolio. h>
      int identifier = 0, number = 0, key = 0, white = 0;
      assign = 0, operatorsym = 0, spichar = 0;
    903
    %00%
    if I then I int I Hoat I real I else I while I tor
      { key++, printf (- keywords: %sln", yyfext); }
```

```
[a-z][a-z][a-z] * ? idontifier++, printf('Identifier: %sln", yytext); 4
[0-9]* f number++, print+ ('number: "/osin", yytex+); }
[+, +, 1, -] & operatorsym++, print+( operator eymbol="1.3 ln", yytex+);}
:= {assign ++, print+ (+ Assignment operator: %s\n", yytext); }
[!@#$% 18 *, ()] {splchar++, printf('splcharacter: "los 'n", yytex+);}
Eltin" "J? white++, printf (: white spaces: 9.5 ln", yytext); }
%0%
9 nt main ()
3
    yylex;
    Print ( : keyword: "din", key);
    printf ( Identitier: "bd(n", identitier);
    prints ( - Number: "din", number);
    print ( white spaces: " dln", white);
     Printf ("Assignment operator: "bolln", assign);
     printf ( operator symbol: %d\n", operatorsym);
     printf ( ! Special character: % d(n', spichon);
     returno;
 3
```

output:

- Ofloat x = 32.68

 Keywords: float
 White spaces:

 Identitier: x

 number: 32

 number: 68

 White spaces:
- 2 int num1: 10000

 Keywords: int

 White spaces:

 Identifier: num1

 number: 10000

 White spaces: