21BDS0340

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Compiler Design Lab

Assignment – IV

**Question 1**

Aim:

Write a lex program to identify if a number is real or exponential

Program:

%{

#include<stdio.h>

%}

sign [+-]?

digit [0-9]+

exp ([eE]{sign}{digit})

**%%**

\+?{digit} printf("Number is positive");

\-{digit} printf("Number is negative");

{sign}{digit}?\.{digit}? printf("Number is real");

{sign}{digit}(\.{digit}?)?{exp} printf("Number is exponential");

**%%**

int yywrap()

{

return 1;

}

int main()

{

char myString[100];

fgets (myString, sizeof(myString), stdin);

yy\_scan\_string(myString);

yylex ();

}

Output:

