CS 324Compiler Design Lab

short line

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# Experiment 1

## Write a LEX code to identify if a string is a valid Mobile Number or not.

### Source Code:

| %{  %}  ph\_no [1-9][0-9]{9} c\_code "+91 "  %% {c\_code}{ph\_no} {printf("Valid mobile number\n");}; .+ {printf("invalid mobile number\n");}; %%  int main() {  printf("Enter mobile number: ");  yylex(); } int yywrap(void) {  return 0; } |
| --- |

### Compiling and running the above lex code:

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# Experiment 2

## Write a LEX code to identify if a string is a valid email or not.

### Source Code:

| %{  %} domain ".com"|".in"|".org"|".edu" u\_name [a-z.0-9\_]+{6} domain\_name [a-zA-Z0-9]+ email ({u\_name}"@"{domain\_name}{domain})  %% {email} {printf("Valid email address\n");}; .+ {printf("invalid email address\n");}; %%  int main() {  printf("Enter email address: ");  yylex(); } int yywrap(void) {  return 0; } |
| --- |

### Compiling and running the above lex code:

# Experiment 3

## Write a LEX code to count the number of characters in a file.

### Source Code:

| %{  // Macros for C program  #include <stdio.h>  int ch = 0; %}  %% . {ch++;};  %% int yywrap(void) {  return 1; }  int main(int argc, char\* argv[]) {  yyin = fopen(argv[1], "r");  yylex();  printf("No. of Characters: %d\n\n", ch);  return 0; } |
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### Compiling and running the above source code:

#### Input file (ip.txt): Hello World.

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