35. A School student was asked to do basic mathematical operations. Implement a LEX program to implement the same.

```
%{
#include <stdio.h>
%}
%%
[0-9]+
            { printf("Number: %s\n", yytext); }
            { printf("Operator: %s\n", yytext); }
[-+*/]
           ; // Ignore whitespace and newline characters
\lceil t \rceil
          { printf("Invalid character: %s\n", yytext); }
%%
int main() {
  char input[4096]; // Adjust the size based on your needs
  printf("Enter a mathematical expression:\n");
  if (fgets(input, sizeof(input), stdin) == NULL) {
     fprintf(stderr, "Error reading input.\n");
     return 1;
  }
```

```
// Remove newline character if present
                        for (int i = 0; input[i] != '\0'; i++) {
                                               if \, (input[i] == \ensuremath{\mbox{$^{\sc '}$}} \ensuremath
                                                                        input[i] = '\0';
                                                                        break;
                          }
                     // Set the input buffer
                       yy_scan_string(input);
                     // Start parsing
                       yylex();
                       return 0;
int yywrap() { return 1; }
```

}

