EXPERIMENT 3

```
#include <stdio.h>
#include <stdbool.h>
int main() {
  char input[100];
  printf("Enter an arithmetic expression: ");
  scanf("%s", input);
  int i = 0;
  while (input[i] != '\0') {
     if (input[i] == ' ' || input[i] == '\t' || input[i] == '\n') {
        continue;
     }
     bool isValidOperator = false;
     if (input[i] == '+') {
        isValidOperator = true;
     } else if (input[i] == '-') {
        isValidOperator = true;
     } else if (input[i] == '*') {
        isValidOperator = true;
     } else if (input[i] == '/') {
        isValidOperator = true;
     } else if (input[i] == '=') {
        isValidOperator = true;
     }
     if (isValidOperator) {
        printf("%c - operator.\n", input[i]);
     } else {
        printf("%c - not an operator.\n", input[i]);
     }
     j++;
  }
return 0;
}
```

OUTPUT

Enter an arithmetic expression: A+B-C*

- A not an operator.
- + operator.
- B not an operator.
- - operator.
- C not an operator.
- * operator.