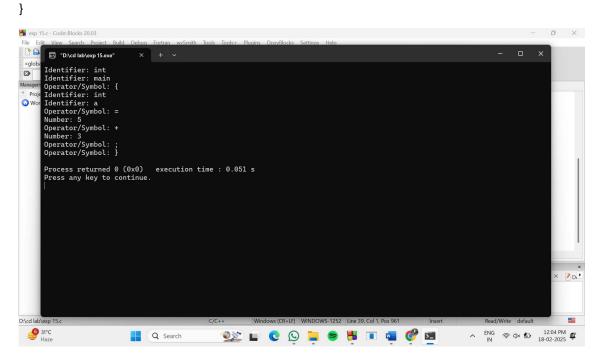
```
#include <stdio.h>
#include <ctype.h>
#include <string.h>
#define MAX_TOKEN_LENGTH 50
void tokenize(char *code) {
  char token[MAX_TOKEN_LENGTH];
  int i = 0, j = 0;
  while (code[i] != '\0') {
    if (isalpha(code[i])) {
       j = 0;
       while (isalnum(code[i]) || code[i] == '_') {
         token[j++] = code[i++];
       }
       token[j] = '\0';
       printf("Identifier: %s\n", token);
    } else if (isdigit(code[i])) {
       j = 0;
       while (isdigit(code[i])) {
         token[j++] = code[i++];
       }
       token[j] = '\0';
       printf("Number: %s\n", token);
    } else if (strchr("+-*/=;{}", code[i])) {
       printf("Operator/Symbol: %c\n", code[i++]);
    } else {
       i++;
    }
  }
}
int main() {
```

```
char code[] = "int main() { int a = 5 + 3; }";
tokenize(code);
return 0;
```



D:\cd lab\exp 16.c
Nifty bank
-0.66%

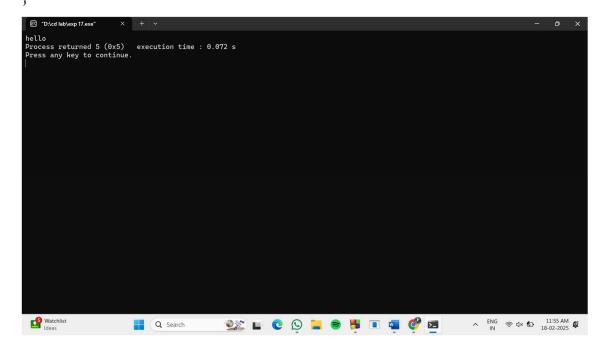
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```
#include <stdio.h>
int main()
   int number1, number2, sum;
printf("Enter two integers: ");
scanf("%d %d", &number1, &number2);
sum = number1 + number2;
 printf("\%d + \%d = \%d", number1, number2, sum);
 return 0;
     Process returned 0 (0x0) execution time : 4.140 s
```

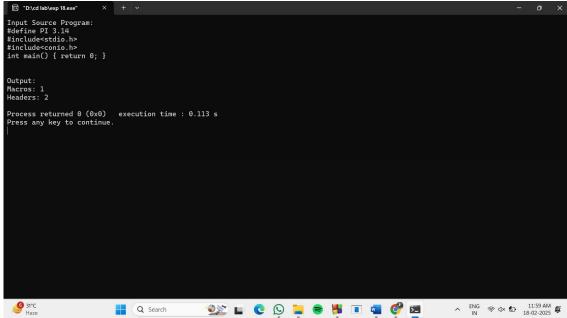
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Experiment-17

```
#define PI 3.14
#include<stdio.h> #include<conio.h>
void main()
{
    int a,b,c = 30;
    printf("hello");
}
```

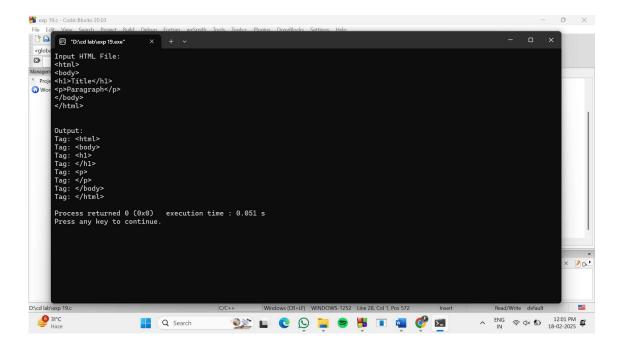


```
#include <stdio.h>
#include <string.h>
int main() {
    char str[] = "#define PI 3.14\n#include<stdio.h>\n#include<conio.h>\nint main() { return
0; }\n";
    int macro_count = 0, header_count = 0;
    printf("Input Source Program:\n%s\n\n", str);
    char *line = strtok(str, "\n");
    while (line) {
        if (strncmp(line, "#define", 7) == 0) macro_count++;
            if (strncmp(line, "#include", 8) == 0) header_count++;
            line = strtok(NULL, "\n");
        }
        printf("Output:\nMacros: %d\nHeaders: %d\n", macro_count, header_count);
        return 0;
}
```



Experiment-19

```
#include <stdio.h>
int main() {
   char str[] =
"<\!html>\!\backslash n<\!body>\!\backslash n<\!h1>\!Title<\!/h1>\!\backslash n<\!p>\!Paragraph<\!/p>\!\backslash n<\!/body>\!\backslash n<\!/html>\!\backslash n";
   printf("Input HTML File:\n%s\n\n", str);
   printf("Output:\n");
   int inside tag = 0;
   for (int i = 0; str[i] != '\0'; i++) {
      if (str[i] == '<') {
         inside tag = 1;
         printf("Tag: ");
      }
      if (inside_tag) {
         printf("%c", str[i]);
      }
      if (str[i] == '>') {
         inside tag = 0;
         printf("\n");
   return 0;
}
```



```
#include <stdio.h>
int main() {
    char str[] = "#define PI 3.14\n#include<stdio.h>\nint main() {\n int a = 10;\n
printf(\"Hello\");\n return 0;\n}\n";
    int line_num = 1;
    printf("Input C Program:\n%s\n\n", str);
    printf("Output:\n");
    printf("%d: ", line_num++);
    for (int i = 0; str[i] != "\0'; i++) {
        printf("%c", str[i]);
        if (str[i] == "\n' && str[i + 1] != "\0') {
            printf("%d: ", line_num++);
        }
    }
    return 0;
}
```

