

EXPERIMENT-4

AIM:

Design a lexical Analyzer to validate operators to recognize the operators +,-,*,/ using regular arithmetic operators using C

PROGRAM:

The screenshot shows the Dev-C++ IDE interface. The top menu bar includes File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, and Help. The title bar displays "IDM-GCC 4.9.2 64-bit Release". The main window shows a code editor with the file "EXP_1.cpp" containing C code. The code reads input from the user, removes spaces, and prints the result. Line 10 contains a syntax error, indicated by a red squiggle under the closing brace. Below the code editor is a toolbar with icons for Compiler, Resources, Compile Log, Debug, Find Results, and Close. The bottom panel shows the "Compiler" tab selected, displaying the "Compilation results...". It lists the following details:

- Abort Compilation
- Shorten compiler paths
- Compilation results...
 - Errors: 0
 - Warnings: 0
 - Output Filename: C:\Users\Haritha\OneDrive\Documents\EXP_1.exe
 - Output Size: 128.9423628125 KiB
 - Compilation Time: 0.72s

```
#include <stdio.h>
int main() {
    char input[100];
    printf("Enter text with spaces: ");
    fgets(input, sizeof(input), stdin);
    printf("\nOutput without spaces:\n");
    for(int i = 0; input[i] != '\0'; i++) {
        if(input[i] != ' ' && input[i] != '\n' && input[i] != '\t')
            printf("%c", input[i]);
    }
    return 0;
}
```

OUTPUT:

The screenshot shows a terminal window with a dark background. The command "C:\Users\Haritha\OneDrive\Documents>" is visible at the top. The user enters "Enter text with spaces: haritha is a good girl" and presses Enter. The program outputs "Output without spaces:" followed by "harithaisagoodgirl". A dashed line separates this from the end-of-process message. The terminal then displays "Process exited after 29.86 seconds with return value 0" and "Press any key to continue . . .".

```
C:\Users\Haritha\OneDrive\Documents>
Enter text with spaces: haritha is a good girl
Output without spaces:
harithaisagoodgirl
-----
Process exited after 29.86 seconds with return value 0
Press any key to continue . . .
```