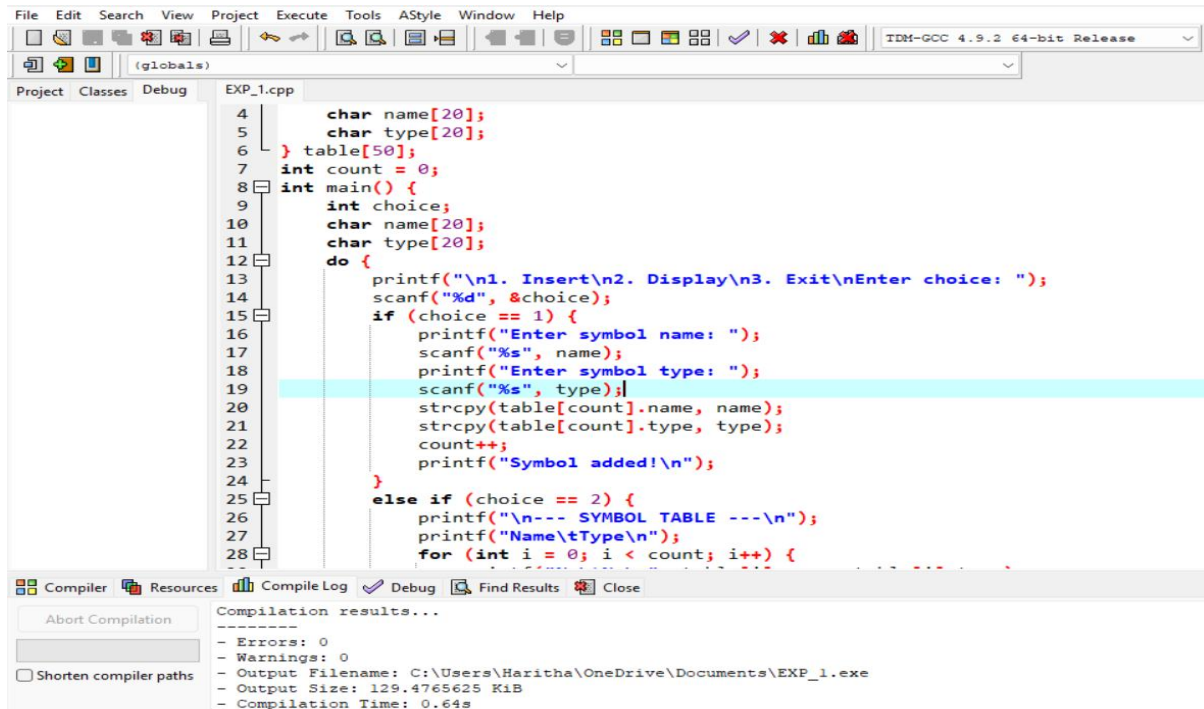


EXPERIMENT-11

AIM:

Implement a C program to perform symbol table operations.

PROGRAM:



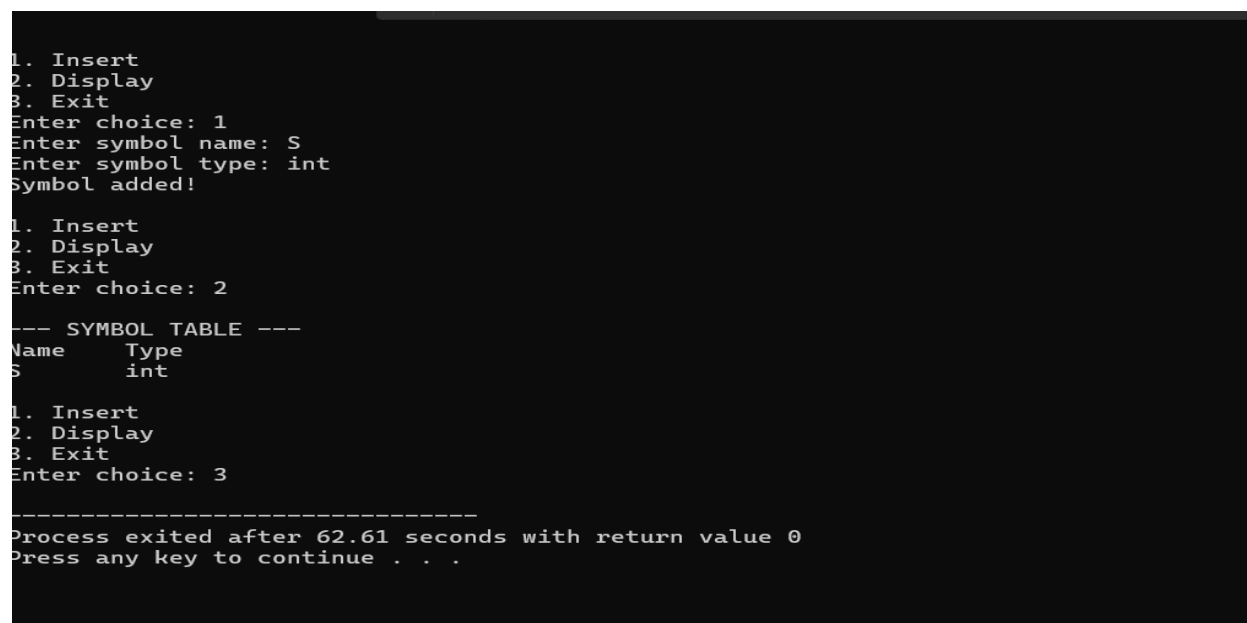
The screenshot shows a C program in a code editor. The program defines a symbol table with an array of structures. It has three menu options: 1. Insert, 2. Display, and 3. Exit. The Insert option prompts for a symbol name and type, adds it to the table, and prints a confirmation. The Display option prints the entire symbol table. The program is compiled using TDM-GCC 4.9.2 64-bit Release. The compilation results show 0 errors and 0 warnings, with the output file named EXP_1.exe.

```
4     char name[20];
5     char type[20];
6 } table[50];
7 int count = 0;
8 int main() {
9     int choice;
10    char name[20];
11    char type[20];
12    do {
13        printf("\n1. Insert\n2. Display\n3. Exit\nEnter choice: ");
14        scanf("%d", &choice);
15        if (choice == 1) {
16            printf("Enter symbol name: ");
17            scanf("%s", name);
18            printf("Enter symbol type: ");
19            scanf("%s", type);
20            strcpy(table[count].name, name);
21            strcpy(table[count].type, type);
22            count++;
23            printf("Symbol added!\n");
24        }
25        else if (choice == 2) {
26            printf("\n--- SYMBOL TABLE ---\n");
27            printf("Name\tType\n");
28            for (int i = 0; i < count; i++) {
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Haritha\OneDrive\Documents\EXP_1.exe
- Output Size: 129.4768625 KiB
- Compilation Time: 0.64s

OUTPUT:



The screenshot shows the output of the program. It displays the menu options and the user's input for the Insert option. The output shows the symbol table being added and the program exiting after 62.61 seconds.

```
1. Insert
2. Display
3. Exit
Enter choice: 1
Enter symbol name: S
Enter symbol type: int
Symbol added!

1. Insert
2. Display
3. Exit
Enter choice: 2

--- SYMBOL TABLE ---
Name      Type
S         int

1. Insert
2. Display
3. Exit
Enter choice: 3

Process exited after 62.61 seconds with return value 0
Press any key to continue . . .
```