

## Experiment-4

Q.1 Declare a global variable outside all functions and use it inside various functions to understand its accessibility.

#include <stdio.h>

int counter = 0;

Void increment () {

counter ++;

Printf ("Inside increment () ; Counter = %d\n", counter);

}

Void multiply () {

Counter \* = 2;

Printf ("Inside multiply () ; Counter = %d\n", counter);

}

int main () {

Printf ("Initially : Counter = %d\n", counter);

increment ();

increment ();

multiply ();

Printf ("In main () after function calls : Counter = %d\n", counter);

Remarks: return();

Teacher's Signature

Counter );

Code Editor

main.c

```
1 #include <stdio.h>
2
3 int counter = 0;
4
5 void increment() {
6     counter++;
7     printf("Inside increment(): counter = %d\n", counter);
8 }
9
10 void multiply() {
11     counter *= 2;
12     printf("Inside multiply(): counter = %d\n", counter);
13 }
14
15 int main() {
16     printf("Initially: counter = %d\n", counter);
17
18     increment();
19     increment();
20     multiply();
21
22     printf("In main() after function calls: counter = %d\n",
23            counter);
24
25 }
```

Run

Output

```
Initially: counter = 0
Inside increment(): counter = 1
Inside increment(): counter = 2
Inside multiply(): counter = 4
In main() after function calls: counter = 4

== Code Execution Successful ==
```