


Assignment Code for Programming in C

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 Subject: Programming in C

 Department: CSE-62

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Programs:

1. Print your name ten times.
2. Print numbers from 0 to 10 and 10 to 0 using loops.
3. Compute the sum of the first 10 natural numbers.
4. Read 10 numbers from the keyboard and find their sum and average.
5. Display the cube of the number up to an integer.
6. Display the multiplication table for a given integer.
7. Display the n terms of odd natural numbers and their sum.

1. Program to print your name ten times

Code :

main.c	Output
<pre>1 #include <stdio.h> 2 3 int main() { 4 for (int i = 0; i < 10; i++) { 5 printf("Mahdi Hasan Shuvo\n"); 6 } 7 return 0; 8 } 9</pre>	Mahdi Hasan Shuvo Mahdi Hasan Shuvo Mahdi Hasan Shuvo Mahdi Hasan Shuvo Mahdi Hasan Shuvo Mahdi Hasan Shuvo Mahdi Hasan Shuvo Mahdi Hasan Shuvo Mahdi Hasan Shuvo Mahdi Hasan Shuvo

2. Program to print numbers from 0 to 10 and 10 to 0 using loops

Code :

main.c	Output
<pre>1 #include <stdio.h> 2 3 int main() { 4 int my_number; 5 6 printf("Numbers from 0 to 10:\n"); 7 for(my_number = 0; my_number <= 10; 8 my_number++) { 9 printf("%d ", my_number); 10 } 11 printf("\nNumbers from 10 to 0:\n"); 12 for(my_number = 10; my_number >= 0; 13 my_number--) { 14 printf("%d ", my_number); 15 } 16 return 0; 17 }</pre>	Numbers from 0 to 10: 0 1 2 3 4 5 6 7 8 9 10 Numbers from 10 to 0: 10 9 8 7 6 5 4 3 2 1 0 === Code Execution Successful ===

3. Program to compute the sum of the first 10 natural numbers

Code :

```
C main.c > ...
1
2  /*__DEVOLPER__ = " MAHDI HASAN SHUVO ";
3  //__GitHub__ = "Mahdi-hasan-shuvo";
4  //__LinkedIn__ = "mahdi-hasan-shuvo";*/
5  #include <stdio.h>
6  int main() {
7      int sum = 0;
8
9      printf("The first 10 natural numbers are:\n");
10     for (int i = 1; i <= 10; i++) {
11         printf("%d ", i);
12         sum += i;
13     }
14
15     printf("\nThe Sum is: %d\n", sum);
16     return 0;
17 }
18
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

```
PS M:\Gast project\Clint-58> & 'm:\Gast project\Clint-58\main.exe'
● The first 10 natural numbers are:
1 2 3 4 5 6 7 8 9 10
The Sum is: 55
PS M:\Gast project\Clint-58> |
```

4. Program to read 10 numbers from the keyboard and find their sum and average

Code :

```
... C main.c x
C main.c > main()
2  /* __DEVOLPER__ = " MAHDI HASAN SHUVO ";
4  //__Linkdin__ = "mahdi-hasan-shuvo", /
5  #include <stdio.h>
6
7  Windsurf: Refactor | Explain | Generate Function Comment | X |
8  int main() {
9      int sum = 0, number;
10     double average;
11
12     printf("Input the 10 numbers :\n");
13     for (int i = 1; i <= 10; i++) {
14         printf("Number-%d :", i);
15         scanf("%d", &number);
16         sum += number;
17     }
18     average = sum / 10.0;
19     printf("The sum of 10 no is: %d\n", sum);
20     printf("The Average is: %lf\n", average);
21     return 0;
22 }

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
● PS M:\Gast project\Clint-58> & 'm:\Gast project\Clint-58\main.exe'
Input the 10 numbers :
Number-1 :3
Number-2 :4
Number-3 :5
Number-4 :
6
Number-5 :6
Number-6 :7
Number-7 :8
Number-8 :9
Number-9 :0
Number-10 :9
The sum of 10 no is: 57
The Average is: 5.700000
● PS M:\Gast project\Clint-58> |
```

5. Program to display the cube of the number up to an integer

Code :

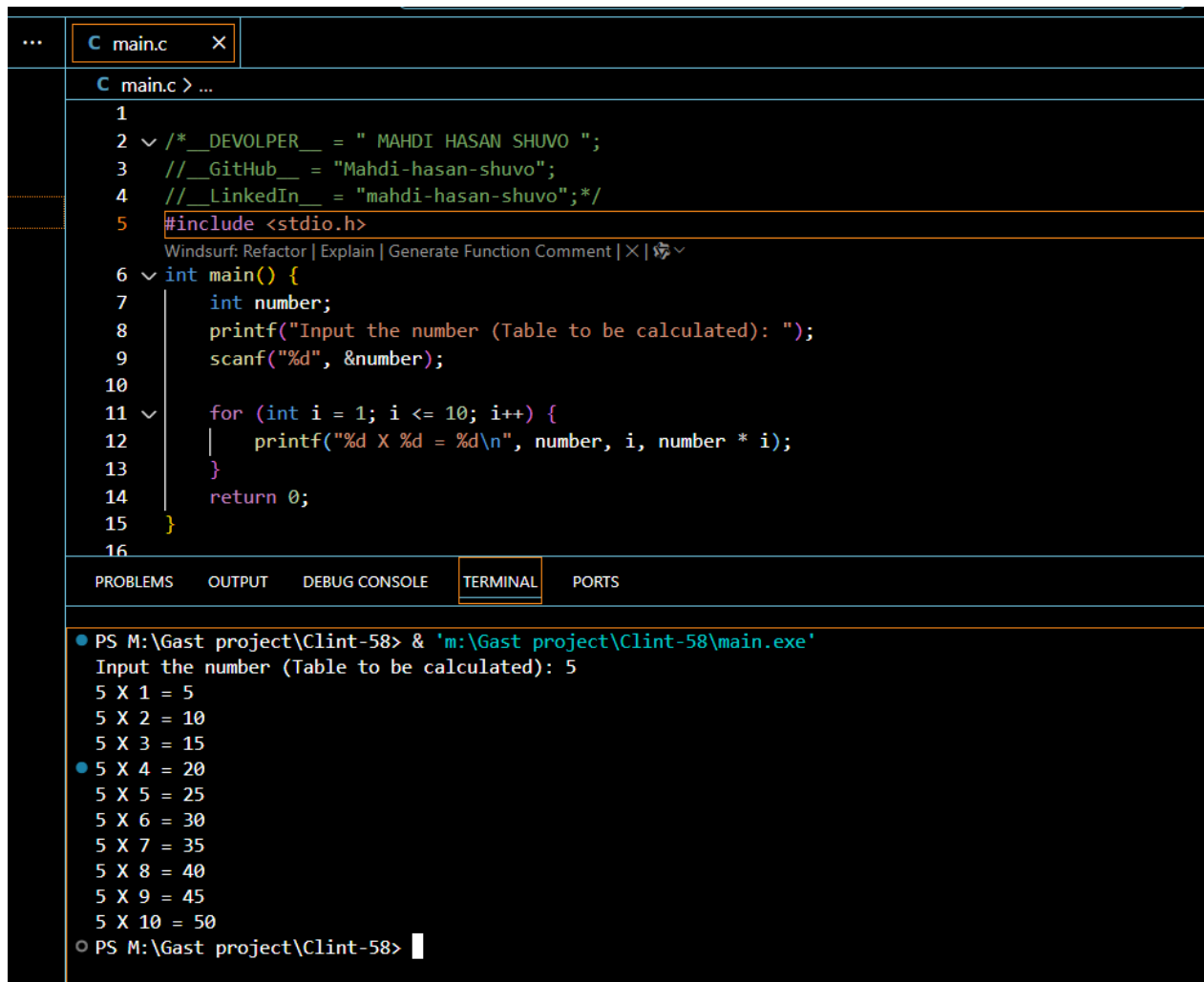
```
main.c > ...
1
2  /*__DEVOLPER__ = " MAHDI HASAN SHUVO ";
3  //__GitHub__ = "Mahdi-hasan-shuvo";
4  //__LinkedIn__ = "mahdi-hasan-shuvo";*/
5  #include <stdio.h>
6  Windsurf: Refactor | Explain | Generate Function Comment | X |
7  int main() {
8      int terms;
9      printf("Input number of terms: ");
10     scanf("%d", &terms);
11     for (int i = 1; i <= terms; i++) {
12         printf("Number is : %d and cube of the %d is : %d\n", i, i, i * i * i);
13     }
14     return 0;
15 }
16
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

```
● PS M:\Gast project\Clint-58> & 'm:\Gast project\Clint-58\main.exe'
Input number of terms: 4
Number is : 1 and cube of the 1 is : 1
Number is : 2 and cube of the 2 is : 8
● Number is : 3 and cube of the 3 is : 27
Number is : 4 and cube of the 4 is : 64
○ PS M:\Gast project\Clint-58> 
```

6. Program to display the multiplication table for a given integer

Code :



The image shows a code editor window with a file named `main.c`. The code is a C program that prompts the user to input a number and then displays a multiplication table for that number from 1 to 10. The code is as follows:

```
1
2  /* __DEVOLPER__ = " MAHDI HASAN SHUVO ";
3   // __GitHub__ = "Mahdi-hasan-shuvo";
4   // __LinkedIn__ = "mahdi-hasan-shuvo"; */
5   #include <stdio.h>
6   int main() {
7       int number;
8       printf("Input the number (Table to be calculated): ");
9       scanf("%d", &number);
10
11       for (int i = 1; i <= 10; i++) {
12           printf("%d X %d = %d\n", number, i, number * i);
13       }
14       return 0;
15   }
16
```

Below the code editor, the **TERMINAL** tab is active, showing the execution of the program. The output is as follows:

```
PS M:\Gast project\Clint-58> & 'm:\Gast project\Clint-58\main.exe'
Input the number (Table to be calculated): 5
5 X 1 = 5
5 X 2 = 10
5 X 3 = 15
5 X 4 = 20
5 X 5 = 25
5 X 6 = 30
5 X 7 = 35
5 X 8 = 40
5 X 9 = 45
5 X 10 = 50
PS M:\Gast project\Clint-58>
```

7. Program to display the n terms of odd natural numbers and their sum

Code :

```
C main.c > ...
1
2  ✓ /*__DEVOLPER__ = " MAHDI HASAN SHUVO ";
3  //__GitHub__ = "Mahdi-hasan-shuvo";
4  //__LinkedIn__ = "mahdi-hasan-shuvo";*/
5  #include <stdio.h>
6  Windsurf: Refactor | Explain | Generate Function Comment | X |
7  ✓ int main() {
8      int terms, sum = 0;
9      printf("Input number of terms: ");
10     scanf("%d", &terms);
11     printf("The odd numbers are :");
12     for (int i = 1; i <= terms; i++) {
13         printf("%d ", 2 * i - 1);
14         sum += 2 * i - 1;
15     }
16     printf("\nThe Sum of odd Natural Numbers up to %d terms: %d\n", terms, sum);
17     return 0;
18 }
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

```
PS M:\Gast project\Clint-58> & 'm:\Gast project\Clint-58\main.exe'
Input number of terms: 3
The odd numbers are :1 3 5
The Sum of odd Natural Numbers up to 3 terms: 9
PS M:\Gast project\Clint-58> |
```

Thank You Sir..