



Green University of Bangladesh
Department of Computer Science and Engineering (CSE)
Faculty of Sciences and Engineering
Semester: (Spring, Year:2022), B.Sc. in CSE (Day)

LAB REPORT NO -01
Course Title: Structured Programming Lab
Course Code: CSE 104 Section: PC-213DB

Lab Experiment Name:

1. Write a C program to add two numbers (5 and 8) and display its sum like (5 + 8 = 13).
2. Write a C program to input two numbers and display those numbers.
3. Write a C Program to input two numbers as input and display its sum.
4. Write a C Program to input two numbers as input and display its product.
5. Write a C Program to input two float numbers as input and display its sum

Student Details

Name	ID
Md. Javed Hossen	213902046

Lab Date :05/02/22
Submission Date :11/02/22
Course Teacher's Name :Md. Solaiman Mia

[For Teachers use only: **Don't Write Anything inside this box**]

<u>Lab Report Status</u>	
Marks:	Signature:
Comments:	Date:

Problem 01

TITLE OF THE LAB EXPERIMENT

Write a C program to add two numbers (5 and 8) and display its sum like (5 + 8 = 13).

OBJECTIVES/AIM

Our objective is to add two numbers and then, the sum of two numbers

PROCEDURE

Step 1: Start

Step 2: Declare variables a,b.

Step 3: Add a and b and then assign the result to a variable sum.

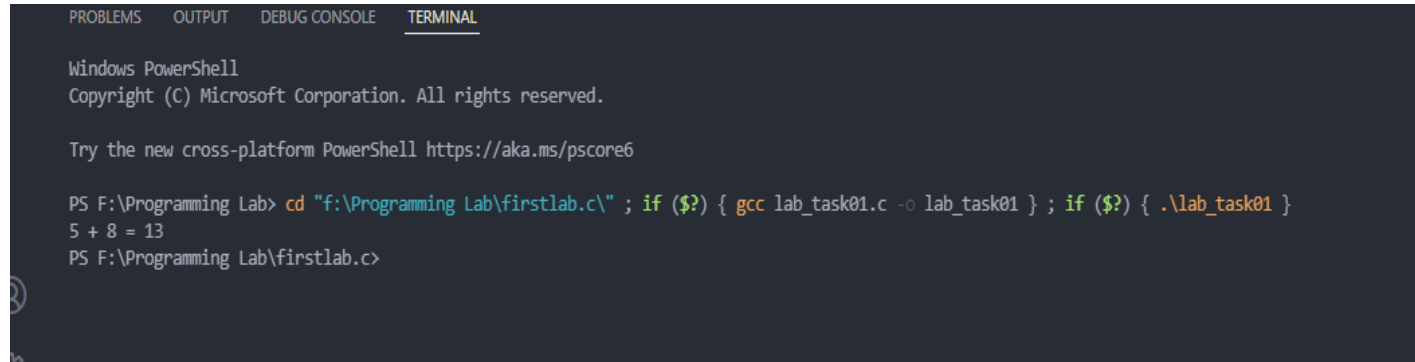
Step 4: Display sum

Step 5: Stop.

IMPLEMENTATION

```
Subject: _____  
Date: _____ Time: _____  
  
#include <stdio.h>  
int main()  
{  
    // here a and b two variables  
    int a = 5;  
    int b = 8;  
  
    // do sum two variables  
    int sum = a + b;  
  
    // output the sum of two variables  
    printf("%d + %d = %d", a, b, sum);  
    return 0;  
}
```

TEST RESULT / OUTPUT



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS F:\Programming Lab> cd "f:\Programming Lab\firstlab.c\" ; if ($?) { gcc lab_task01.c -o lab_task01 } ; if ($?) { .\lab_task01 }
5 + 8 = 13
PS F:\Programming Lab\firstlab.c>
```

ANALYSIS AND DISCUSSION

In this program, we took two variables a and b respectively. The two integers are stored in these two variables. Then, these two numbers are added using the + operator with the assigning value sum variable, and the result is stored in the sum variable.

Problem 02

TITLE OF THE LAB EXPERIMENT

Write a C program to input two numbers and display those numbers.

OBJECTIVES/AIM

Our objective is to input two numbers and show those numbers

PROCEDURE / ANALYSIS / DESIGN

Step 1: Start

Step 2: Declare variables a,b.

Step 3: Read values for a,b.

Step 4: Display values for a,b

Step 5: Stop

IMPLEMENTATION

02

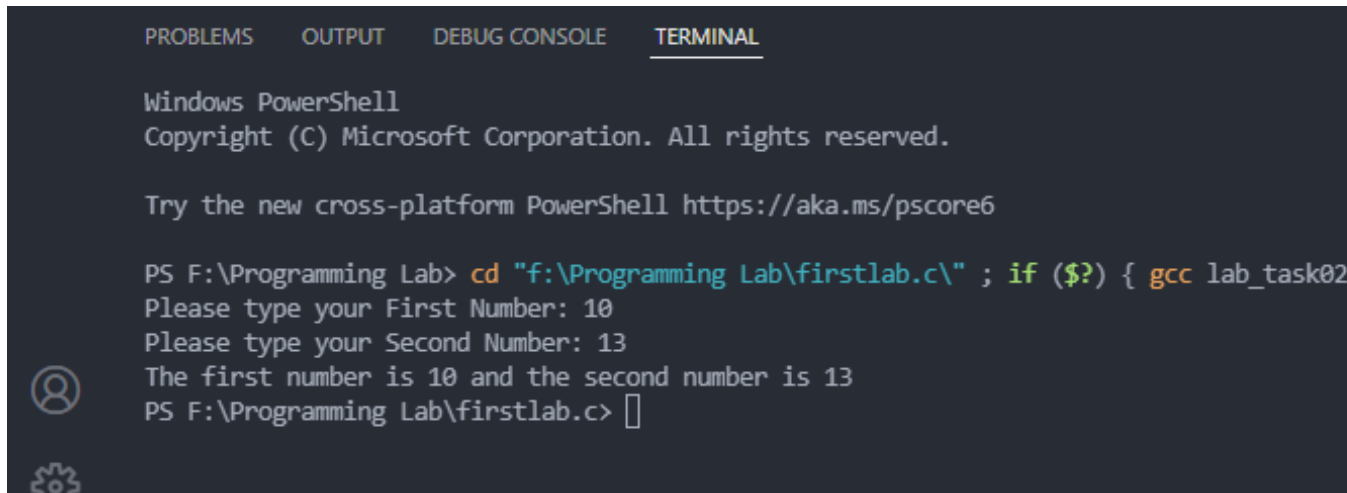
```
#include <stdio.h>
int main()
{
    // take two variable a and b
    int a, b;
    printf (" Please type Your First number: ");
    // take first input from user
    scanf ("%d", &a);

    printf (" Please type Your Second number: ");
    // take second input from user
    scanf ("%d", &b);

    // now output two variables
    printf (" The first number is %d and\n the second number is %d ", a, b);

    return 0;
}
```

TEST RESULT / OUTPUT



The screenshot shows a Windows PowerShell terminal window with a dark background. At the top, there are four tabs: 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', and 'TERMINAL', with 'TERMINAL' being the active tab. The terminal displays the following text:

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS F:\Programming Lab> cd "f:\Programming Lab\firstlab.c\" ; if ($?) { gcc lab_task02
Please type your First Number: 10
Please type your Second Number: 13
The first number is 10 and the second number is 13
PS F:\Programming Lab\firstlab.c> 
```

On the left side of the terminal window, there is a user profile icon and a gear icon for settings.

ANALYSIS AND DISCUSSION

In this program, we took two variables *a* and *b* respectively. The user is asked to take two input numbers. The two integers are stored in these two variables. Then, Display the two numbers

Problem 03

TITLE OF THE LAB EXPERIMENT

Write a C Program to input two numbers as input and display its sum.

OBJECTIVES/AIM

Our objective is to declare the variables and then input two numbers and show those values

PROCEDURE

Step 1: Start

Step 2: Declare variables a,b.

Step 3: Read values for a,b.

Step 4: Add a and b and then assign the result to a variable sum.

Step 5: Display sum

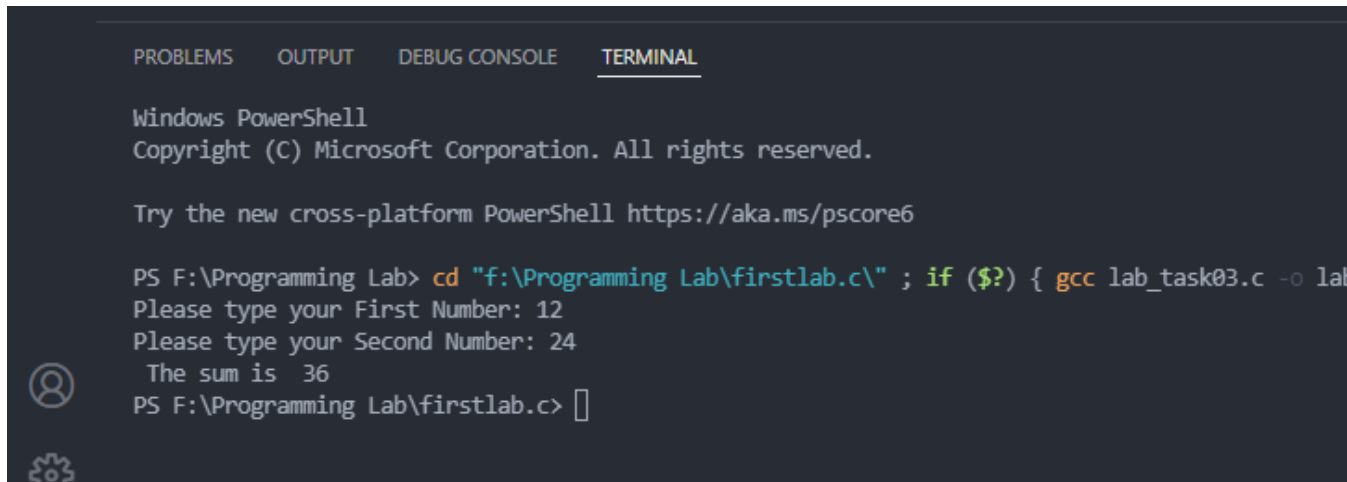
Step 6: Stop

IMPLEMENTATION

```
03
Subject: _____
Date: _____
Time: _____

#include <stdio.h>
int main()
{
    // take two variables a and b
    int a, b;
    printf("Please type your first number: ");
    scanf("%d", &a);
    printf("Please type your second number: ");
    scanf("%d", &b);
    // Now sum the two variables
    int sum = a + b;
    // Now output the sum of two variables
    printf("The sum is %d", sum);
    return 0;
}
```

TEST RESULT / OUTPUT



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/powershell

PS F:\Programming Lab> cd "f:\Programming Lab\firstlab.c\" ; if ($?) { gcc lab_task03.c -o lab
Please type your First Number: 12
Please type your Second Number: 24
The sum is 36
PS F:\Programming Lab\firstlab.c> 
```

ANALYSIS AND DISCUSSION

In this program, we took two variables a and b respectively. The user is asked to take two input numbers. The two integers are stored in these two variables. Then, these two numbers are added using the + operator with the assigning value sum variable, and the result is stored in the sum variable.

Problem 04

TITLE OF THE LAB EXPERIMENT

Write a C Program to input two numbers as input and display its product.

OBJECTIVES/AIM

Our objective is to declare the variables and then input two numbers and then display its product

PROCEDURE / ANALYSIS / DESIGN

Step 1: Start

Step 2: Declare variables a,b.

Step 3: Read values for a,b.

Step 4: Add a and b and then assign the result to a variable product.

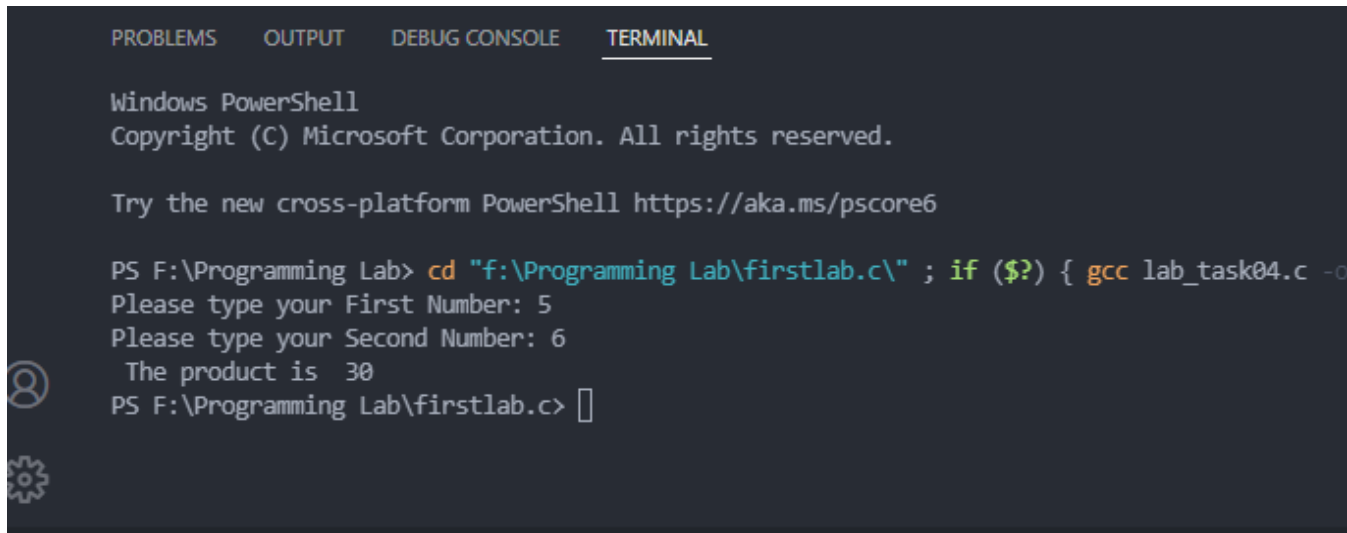
Step 5: Display product

Step 6: Stop

IMPLEMENTATION

```
04
#include <stdio.h>
int main()
{
    // take two variable a and b
    int a, b;
    printf("please type your first number: ");
    scanf("%d", &a);
    printf("please type your second number: ");
    scanf("%d", &b);
    // Now product of the two variables
    int product = a * b;
    // Now output the product of two variables
    printf("The product is %d", product);
    return 0;
}
```

TEST RESULT / OUTPUT



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS F:\Programming Lab> cd "f:\Programming Lab\firstlab.c\" ; if ($?) { gcc lab_task04.c -o
Please type your First Number: 5
Please type your Second Number: 6
The product is 30
PS F:\Programming Lab\firstlab.c> 
```

ANALYSIS AND DISCUSSION

In this program, we took two variables a and b respectively. The user is asked to take two input numbers. The two integers are stored in these two variables. Then, these two numbers are multiplied using the * operator with the assigning value product variable, and the result is stored in the product variable.

Problem 05

TITLE OF THE LAB EXPERIMENT

Write a C Program to input two float numbers as input and display its sum

OBJECTIVES/AIM

Our objective is to declare the variables and then input two float numbers and then display its sum.

PROCEDURE Step

1: Start

Step 2: Declare variables a,b.

Step 3: Read values for a,b.

Step 4: Add a and b and then assign the result to a variable sum.

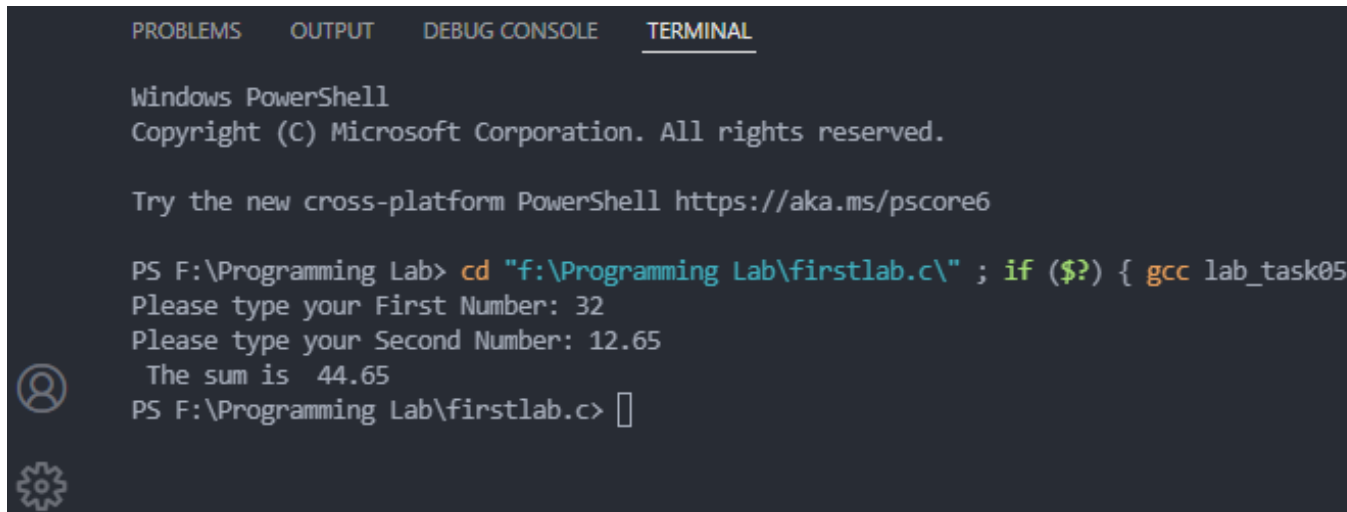
Step 5: Display sum

Step 6: Stop

IMPLEMENTATION

```
#include <stdio.h>
int main()
{
    // take two variables a and b
    float a, b;
    printf("Please type your first number: ");
    scanf("%f", &a);
    printf("Please type your second number: ");
    scanf("%f", &b);
    // Now sum of two variables
    float sum = a + b;
    // Now output the sum of two variables
    printf("The sum is %.2f", sum);
    return 0;
}
```

TEST RESULT / OUTPUT



The screenshot shows a Windows PowerShell terminal window with a dark background. At the top, there are four tabs: 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', and 'TERMINAL', with 'TERMINAL' being the active tab. The terminal displays the following text: 'Windows PowerShell', 'Copyright (C) Microsoft Corporation. All rights reserved.', and a message about the new cross-platform PowerShell with a link. Below this, the user enters the command 'cd "f:\Programming Lab\firstlab.c\" ; if (\$?) { gcc lab_task05'. The program then prompts for two numbers: 'Please type your First Number: 32' and 'Please type your Second Number: 12.65'. It then outputs 'The sum is 44.65'. The prompt 'PS F:\Programming Lab\firstlab.c>' is shown at the bottom. On the left side of the terminal window, there is a user profile icon and a gear icon for settings.

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS F:\Programming Lab> cd "f:\Programming Lab\firstlab.c\" ; if ($?) { gcc lab_task05
Please type your First Number: 32
Please type your Second Number: 12.65
The sum is 44.65
PS F:\Programming Lab\firstlab.c> 
```

ANALYSIS AND DISCUSSION

In this program, we took two float variables a and b respectively. The user is asked to take two input numbers. The two numbers are stored in these two variables. Then, these two numbers are added using the + operator with the assigning value sum variable, and the result is stored in the sum variable.