

Experiment 2: Understanding Algorithms, Flowcharts & VS Code Setup

Aim:

To understand the concepts of algorithms, flowcharts, and setup of Visual Studio Code.

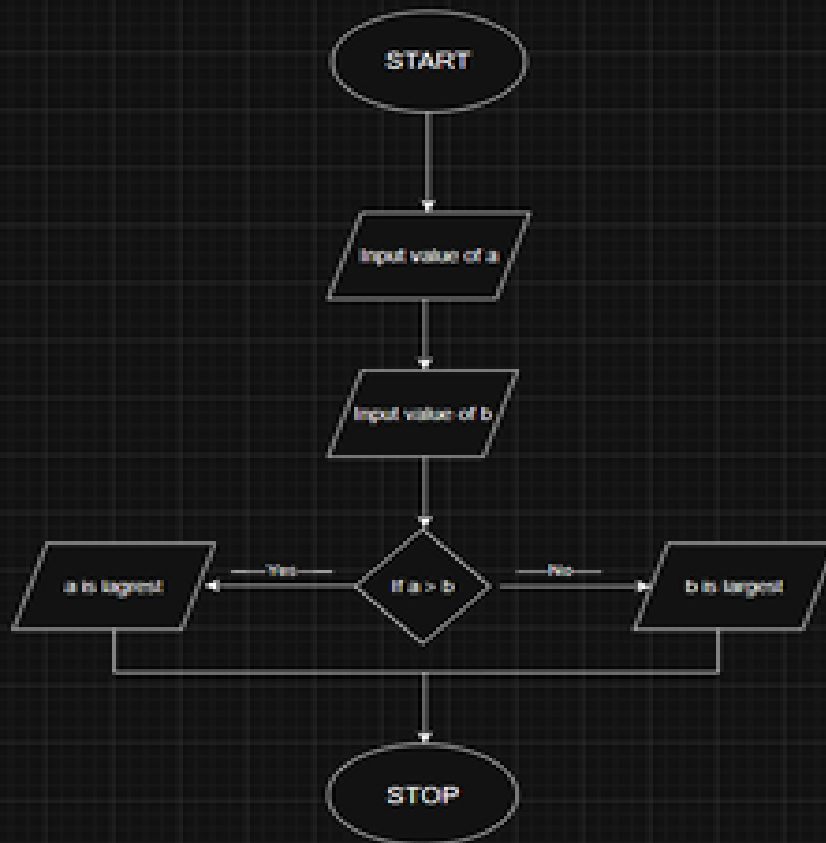
Problem:

Write a C program to print the largest of two numbers entered by the user and also print their sum.

Algorithm:

1. Start
2. Declare two variables num1 and num2.
3. Input two numbers from the user.
4. Compare num1 and num2.
5. If $\text{num1} > \text{num2}$, then num1 is the largest; otherwise, num2 is the largest.
6. Calculate the sum = num1 + num2.
7. Display the largest number and the sum.
8. Stop.

Flowchart :



C Program:

```
#include <stdio.h>

int main() {

    int num1, num2;

    printf("Enter first number: ");

    scanf("%d", &num1);

    printf("Enter second number: ");

    scanf("%d", &num2);

    if (num1 > num2) {

        printf("Largest number: %d\n", num1);

    } else {

        printf("Largest number: %d\n", num2);

    }

    int sum = num1 + num2;

    printf("Sum of two numbers: %d\n", sum);
```

```
return 0;  
  
}
```

```
1  #include <stdio.h>  
2  
3  int main(){  
4      int a;  
5      int b;  
6      printf("Enter number a : \n");  
7      scanf("%d",&a);  
8      printf("Enter number b : \n");  
9      scanf("%d",&b);  
10     if(a>b){  
11         printf("Largest number is : %d\n",a);  
12     }  
13     else{  
14         printf("Largest number is : %d\n",b);  
15     }  
16     int sum = a + b;  
17     printf("Sum is : %d\n",sum);  
18 }
```

Output :

Important VS Code Shortcuts:

- Ctrl + ` : Open integrated terminal
- Ctrl + S : Save current file
- Ctrl + / : Comment or uncomment a line
- Ctrl + Shift + N : New window

- Ctrl + Shift + P : Command Palette
- Alt + ↑ / ↓ : Move line up or down
- Ctrl + Space : Trigger IntelliSense suggestions
- Ctrl + K + C : Add block comment
- Ctrl + K + U : Remove block comment