# Practical NO:- 1

**PROBLEM STATEMENT :-** Setup VS Code + GCC, write first C program, explain structure, print name/age using printf.

Install MinGW (C/C++ Compiler)
Follow these steps carefully
1. Open Google and search MinGW compiler
2. Go to SourceForge MinGW
3. Click on the big Green Download Button
4. Open the downloaded .exe file
5. Click Install
6. Click Continue
7. Wait till setup is done
8. Again, click Continue

Now select these 4 packages (Right-hand side Mark for Installation)
- Developer Toolkit
- Base
- gcc-g++
- objc

9. On the top-left, click Installation
10. Select Apply Changes
11. Again, click Apply
12. Wait till all packages download
13. Click Close

Next, set Environment Variables
14. Go to Search → type environment variables
15. Click Edit the system environment variables
16. Click Environment Variables
17. Under System Variables, click Path
18. Click New
19. Paste this: C:\MinGW\bin
20. Press OK → OK → OK
    Done! Now test it:
21. Open CMD → type:
    g++ --version

If version shows up, Congrats! MinGW is installed
Install VS Code (Editor)
1. Google search: VS Code
2. Go to code.visualstudio.com
3. Click Download for Windows
4. Open the downloaded file
5. Accept the agreement → click Next
6. Keep clicking Next → Next
7. Tick all checkboxes → click Next
8. Click Install
9. Wait for installation
10. Click Finish

After Opening VS Code:
Install 2 Extensions
- C/C++ (Microsoft)
- Code Runner

**Requirements** :- VS Code,  GCC (GNU Compiler Collection), C Programing Language, version C23.

# CODE :-

Kishan_rathore[RU-25-10687]

**C** *Experiments_No1.c* ✕

C Experiments_No1.c > ⊕ main()

```c
1    #include <stdio.h>
2    int main( ){
3        printf("Hello World!\n");
4        return 0;
5    }
```

# OUTPUT :-

PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS          Filter          Code

```
[Running] cd "c:\Practicals\BTech_IBM_1A\Kishan_rathore[RU-25-10687]\" && gcc Experiments_No1.c -o Experiments_No1 &&
"c:\Practicals\BTech_IBM_1A\Kishan_rathore[RU-25-10687]\"Experiments_No1
Hello World!

[Done] exited with code=0 in 2.139 seconds
```

# CODE :-

Kishan_rathore[RU-25-10687]

**C** Experiments_No2.c ✕

C Experiments_No2.c > ⊕ main()

```c
1    #include <stdio.h>
2    int main( ){
3        printf("My name is Kishan Rathore\n");
4        printf("I am 18 year old!\n");
5        return 0;
6    }
```

# OUTPUT :-

PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS          Filter          Code

```
[Running] cd "c:\Practicals\BTech_IBM_1A\Kishan_rathore[RU-25-10687]\" && gcc Experiments_No2.c -o Experiments_No2 &&
"c:\Practicals\BTech_IBM_1A\Kishan_rathore[RU-25-10687]\"Experiments_No2
My name is Kishan Rathore
I am 18 year old!

[Done] exited with code=0 in 2.883 seconds
```