

## ASSIGNMENT 2

### Objective

Install GCC (or Clang) and run simple C programs on a Linux VM.

### Tools

- `build-essential` (GCC, make)
- Text editor: `nano`, `vim`, or an IDE (CodeLite/NetBeans)

### Key Commands

```
sudo apt update
sudo apt install -y build-essential
gcc --version
```

```
# compile
gcc hello.c -o hello
./hello
```

```
# with warnings
gcc -Wall -Wextra -O2 hello.c -o hello
```

### Sample programs

```
#include <stdio.h>
int main(void) {
    int a, b;
    printf("Enter two integers: ");
    if (scanf("%d %d", &a, &b) == 2) {
        printf("Sum = %d\n", a + b);
    } else {
        printf("Invalid input\n");
    }
    return 0;
}
```

### Results

- The gcc compiler is successfully installed and c programs are executed with it.