

- `aryansharma@Aryans-MacBook-Air C++ % g++ 1.cpp`
- `aryansharma@Aryans-MacBook-Air C++ % ./a.out`  
Enter a number: 7  
7 is a prime number.
- `aryansharma@Aryans-MacBook-Air C++ % ./a.out`  
Enter a number: 14  
14 is not a prime number.
- `aryansharma@Aryans-MacBook-Air C++ % g++ 2.cpp`
- `aryansharma@Aryans-MacBook-Air C++ % ./a.out`  
Local variable: 5  
Global variable: 10
- `aryansharma@Aryans-MacBook-Air C++ % g++ 3.cpp`
- `aryansharma@Aryans-MacBook-Air C++ % ./a.out`  
Student Details:  
Name: Arpita Singh  
Roll Number: 4  
Age: 19

```
● aryansharma@Aryans-MacBook-Air C++ % g++ 4.cpp
● aryansharma@Aryans-MacBook-Air C++ % ./a.out
Enter details for Employee 1:
Enter Employee ID: 3022007
Enter Name: Aryan
Enter Department: IGrasp
Enter Age: 19
Enter Basic Salary: 60000
Enter Bonus: 5000
Enter details for Employee 2:
Enter Employee ID: 3022008
Enter Name: Arpita
Enter Department: ISSDC
Enter Age: 19
Enter Basic Salary: 62000
Enter Bonus: 4000
Enter details for Employee 3:
Enter Employee ID: 3022009
Enter Name: Sudhanshu
Enter Department: MOSDAC
Enter Age: 20
Enter Basic Salary: 60000
Enter Bonus: 5000
Enter details for Employee 4:
Enter Employee ID: 3022010
Enter Name: Vaibhav
Enter Department: VEDAS
Enter Age: 21
Enter Basic Salary: 64000
Enter Bonus: 5900
Enter details for Employee 5:
Enter Employee ID: 3022011
Enter Name: Uday
Enter Department: Bhuvan
Enter Age: 19
Enter Basic Salary: 59000
Enter Bonus: 4700
```

Employee Details:

Employee ID: 3022007

Name: Aryan

Department: IGrasp

Age: 19

Basic Salary: 60000

Bonus: 5000

Total Salary: 65000

Employee ID: 3022008

Name: Arpita

Department: ISSDC

Age: 19

Basic Salary: 62000

Bonus: 4000

Total Salary: 66000

Employee ID: 3022009

Name: Sudhanshu

Department: MOSDAC

Age: 20

Basic Salary: 60000

Bonus: 5000

Total Salary: 65000

Employee ID: 3022010

Name: Vaibhav

Department: VEDAS

Age: 21

Basic Salary: 64000

Bonus: 5900

Total Salary: 69900

Employee ID: 3022011

Name: Uday

Department: Bhuvan

Age: 19

Basic Salary: 59000

Bonus: 4700

Total Salary: 63700

```
● aryansharma@Aryans-MacBook-Air C++ % g++ 5.cpp
● aryansharma@Aryans-MacBook-Air C++ % ./a.out
Original values:
num1: 5, num2: 10
Swapped using Call by Value:
a: 10, b: 5
After Call by Value swap:
num1: 5, num2: 10
Swapped using Call by Reference:
a: 10, b: 5
After Call by Reference swap:
num1: 10, num2: 5
● aryansharma@Aryans-MacBook-Air C++ % g++ 6.cpp
● aryansharma@Aryans-MacBook-Air C++ % ./a.out
Integer: 42
Double: 3.14
String: Hello, C++
● aryansharma@Aryans-MacBook-Air C++ % g++ 7.cpp
● aryansharma@Aryans-MacBook-Air C++ % ./a.out
Original number: 42
Modified number: 100
● aryansharma@Aryans-MacBook-Air C++ % g++ 8.cpp
● aryansharma@Aryans-MacBook-Air C++ % ./a.out
Enter a number: 1969
The square of 1969 is 3876961
● aryansharma@Aryans-MacBook-Air C++ % g++ 9.cpp
● aryansharma@Aryans-MacBook-Air C++ % ./a.out
Complex Number 1: 3 + 4i
Complex Number 2: 1.5 + 2.5i
Sum of Complex Numbers: 4.5 + 6.5i
● aryansharma@Aryans-MacBook-Air C++ % g++ 10.cpp
● aryansharma@Aryans-MacBook-Air C++ % ./a.out
Accessing private data from MyFriendClass: 42
```

```
● aryansharma@Aryans-MacBook-Air C++ % g++ 11.cpp
● aryansharma@Aryans-MacBook-Air C++ % ./a.out
Time 1: Time: 2 hours and 45 minutes.
Time 2: Time: 1 hours and 30 minutes.
Total Time: Time: 4 hours and 15 minutes.
● aryansharma@Aryans-MacBook-Air C++ % g++ 12.cpp
● aryansharma@Aryans-MacBook-Air C++ % ./a.out
Creating an object...
Constructor called
Calling a member function...
Hello from MyClass
Object is about to be destroyed...
Destructor called
● aryansharma@Aryans-MacBook-Air C++ % g++ 13.cpp
● aryansharma@Aryans-MacBook-Air C++ % ./a.out
Value: 0
Value: 5
Value: 5
● aryansharma@Aryans-MacBook-Air C++ % g++ 14.cpp
● aryansharma@Aryans-MacBook-Air C++ % ./a.out
String: Hello, World!
String: Hello, World!
● aryansharma@Aryans-MacBook-Air C++ % g++ 15.cpp
● aryansharma@Aryans-MacBook-Air C++ % ./a.out
Static variable value: 3
This is a static function.
```