

Lab 1

Exercise 1

Listing 1: hello.cpp

```
#include <iostream>
using namespace std;

int main()
{
    cout << "hello, world" << endl;
    return 0;
}
```

Compile and run the above program on your system

Exercise 2

The following program calculates the area of a rectangle:

Listing 2: area.cpp

```
#include <iostream>
using namespace std;

int main()
{
    double length;
    double width;
    double area;

    cout << "Enter the length: ";
    cin >> length;
    cout << "Enter the width: ";
    cin >> width;
    area = length * width;
    cout << "The area is: " << area << endl;
    return 0;
}
```

Modify this program to calculate the volume of a rectangular prism after 3 side lengths are input from the user.

Exercise 3

This program displays a greeting after asking for your name.

Listing 3: name.cpp

```
#include <iostream>
using namespace std;
```

```
int main()
{
    char firstname[32];

    cout << "What is your first name? ";
    cin >> firstname;

    cout << "Hello, " << firstname << endl;
    return 0;
}
```

Modify the above program to make it ask the user for their first and last name. Then make it display “Hello, ” followed by their first and last name.