

Exercise 5:

To construct a cpp program to implement a class student having member functions.

Source code:

```
#include <iostream>

using namespace std;

class Box {
    public:
        double length;
        double breadth;
        double height;
        double getVolume(void);
        void setLength( double len );
        void setBreadth( double bre );
        void setHeight( double hei );
};

double Box::getVolume(void) {
    return length * breadth * height;
}

void Box::setLength( double len ) {
    length = len;
}

void Box::setBreadth( double bre ) {
    breadth = bre;
}

void Box::setHeight( double hei ) {
    height = hei;
}

// Main function for the program

int main() {
    Box Box1;
    Box Box2;
```

```
double volume = 0.0;
// box 1 specification
Box1.setLength(6.0);
Box1.setBreadth(7.0);
Box1.setHeight(5.0);
// box 2 specification
Box2.setLength(12.0);
Box2.setBreadth(13.0);
Box2.setHeight(10.0);
// volume of box 1
volume = Box1.getVolume();
cout << "Volume of Box1 : " << volume <<endl;
// volume of box 2
volume = Box2.getVolume();
cout << "Volume of Box2 : " << volume <<endl;
return 0;
}
```

OUTPUT:

Volume of Box1 : 210

Volume of Box2 : 1560