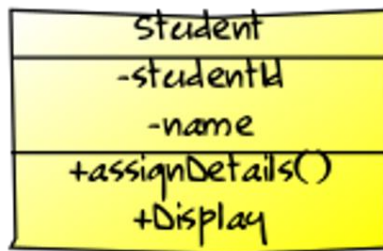


Objectives : Learn to create Classes, setters and Getters

Exercise 1 - Student Class



Using the Student.h and Student.cpp Implement the Studentclass

In Student.h

- 1 Add the private properties studentId and name in the private section.
- 2 Add a method called assignDetails() to assign the studentId and name
- 3 Add a method called display() to display the studentId and name

```
class Student {
    // private section
    //     int studentId
    //     name <- 20 characters

    // public section
    //     assignDetails() method declaration
    //     display() method declaration
};
```

In Student.cpp

1. Implement the Methods assignDetails() and display()

```
#include "Student.h"
#include <iostream>

// Assign studentId and name
Student::assignDetails() {

}

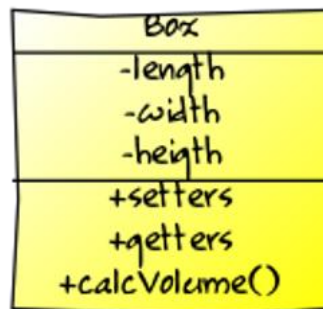
// Display StudentId and Name
Student::display() {

}
```

In Exercise01.cpp

1. Create objects and call the methods to assign values and display them.
2. Create a Dynamic Object and practice to call the methods appropriately.

Exercise 2 - Rectangle Class



Using the Box.h and Box.cpp Implement the Box class

In Box.h

- 1 Write the prototypes for the **setters** for length, width and height
- 2 Write the prototypes **getters** for length, width and height

```
class Box {
    private:
        int length;
        int width; int
        height;
    public:
        // write prototypes of setters for length, width and height
        // write prototypes of getters for length, width and height int
        calcVolume();
};
```

In Box.cpp

- 1 Implement the **setters** for length, width and height
- 2 Implement the **getters** for length, width and height
- 3 Implement the calcVolume() method

```
#include "Box.h"
```

```
// Implement setters and getters
```

```
// Implement the calcVolume() function int
Box::calcVolume() {
}
```

In Exercise02.cpp

- 1 Create a Box type object called box1
 - 2 Assign the keyboard input of length, width and height to the box1 object using setters
-