

CSC2111 Computer Science I Lab

Lab 10

Objectives

1. Learn about inheritance
2. Explore how to redefine the member functions of a base class
3. Learn about composition/aggregation

Example

- The following code shows how to implement the composition.

Solution

```
#include <iostream>
#include <string>

using namespace std;

class Birthday{
public:
    Birthday(int cmonth, int cday, int cyear){
        month=cmonth ;
        day = cday;
        year = cyear;
    }
    void printDate(){
        cout << month << "/" << day << "/" << year << endl;
    }
private:
    int month;
    int day;
    int year;
};
```

Solution

```
class People{
public:
    People(string cname, Birthday cdateOfBirth)
        :name(cname),
        dateOfBirth(cdateOfBirth)
    {

    }

    void printInfo(){
        cout << name << " was born on: ";
        dateOfBirth.printDate();
    }

private:
    string name;
    Birthday dateOfBirth;
};

int main() {

    Birthday birthObject(7, 9, 97);
    People infoObject("Lenny the Cowboy", birthObject);
    infoObject.printInfo();

}
```

Output

 C:\WINDOWS\system32\cmd.exe

```
Lenny the Cowboy was born on: 7/9/97  
Press any key to continue . . .
```