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CECS 282

**Homework 5**

2. **\* GradeBook.cpp**

#include <iostream>

#include <string>

#include "GradeBook.h"

using namespace std;

GradeBook::GradeBook(string course, string instructor)

: courseName(course), instructName(instructor){

}

void GradeBook::printGreeting(string course, string instructor){

cout << "Welcome to the Grade Book for " << course << endl;

cout << "This course is presented by: " << instructor << endl;

}

void GradeBook::setCourseName(string name){

courseName = name;

}

string GradeBook::getCourseName() const{

return courseName;

}

void GradeBook::setInstructorName(string instructor){

instructName = instructor;

}

string GradeBook::getInstructorName() const{

return instructName;

}

int main(int argc, char\* argv[]){

GradeBook course1 ("CECS 282", "Neal Terrel");

cout << "Your current course: " << course1.getCourseName() << endl;

cout << "Your current professor: " << course1.getInstructorName() << endl;

}

**\* GradeBook.h**

#ifndef GRADEBOOK\_H\_

#define GRADEBOOK\_H\_

#include <string>

class GradeBook {

private:

std::string courseName;

std::string instructName;

public:

GradeBook(std::string course, std::string instructor);

void printGreeting(std::string course, std::string instructor);

void setCourseName(std::string name);

std::string getCourseName() const;

void setInstructorName(std::string instructor);

std::string getInstructorName() const;

};

#endif /\* GRADEBOOK\_H\_ \*/

3. **\* Date.cpp**

#include <iostream>

#include "Date.h"

using namespace std;

Date::Date(int lunes, int dias, int anos) {

setMonth(lunes);

setDay(dias);

setYear(anos);

}

void Date::displayDate(){

cout << "Welcome to CSULB Calendar!" << endl;

cout << "Today's Date: " << getMonth() << "/" << getDay() << "/" << getYear() << endl;

}

**void** **Date::setMonth**(**int** input){

**if**(input >= 1 && input <= 12){

month = input;

}

**else**{

month = 1;

cerr << input << " Exceeds the maximum month limit (12).\n"

<< "Limiting month to the first 12. Month will set to 1 if exceeds 12." << **endl**;

}

}

int Date::getMonth() const{

return month;

}

void Date::setDay(int input){

day = input;

}

int Date::getDay() const{

return day;

}

void Date::setYear(int input){

year = input;

}

int Date::getYear() const{

return year;

}

int main(int argc, char\* arg[]){

Date calendar(2, 27, 2015);

calendar.displayDate();

calendar.setMonth(13);

calendar.setDay(28);

calendar.setYear(2015);

cout << "Previous Date: " << calendar.getMonth() << "/" << calendar.getDay();

cout << "/" << calendar.getYear() << endl;

}

**\* Date.h**

#ifndef DATE\_H\_

#define DATE\_H\_

class Date {

private:

int month;

int day;

int year;

public:

Date(int lunes, int dias, int anos);

void displayDate();

void setMonth(int input);

int getMonth() const;

void setDay(int input);

int getDay() const;

void setYear(int input);

int getYear() const;

};

#endif /\* DATE\_H\_ \*/

4. A class defines behavior of its data types and functions.

An object is an instance of a class.

5. **int** **main**(**int** argc, **char**\* arg[]){

Date calendar1(10, 10, 2014);

calendar1.displayDate();

}