**Attachment 1 for Question 1**

#include <iostream>

#include <string>

#include <sstream>

using namespace std;

class Car

{

private:

string make, model;

int year;

public:

Car();

Car(string, string, int);

void setMake(string make);

string getMake();

void setModel(string model);

string getModel();

void setYear(int year);

int getYear();

string printInfo();

};

**Attachment 2 for Question 2 :**

class Address{

private:

int house;

string street;

string city;

string state;

int zip;

public:

Address(int h, string str, string c, string st, int z);

//setter

//getter

};

class Date{

private:

int month;

int day;

int year;

public:

Date();

Date(int m, int d, int y);

//getters

//setters

};

class Person{

private:

string last;

string first;

string email;

Address address;

Date bday;

public:

Person();

Person(string l, string f, string e, int house, string street, string city, string state, int zip,

int month, int day, int year);

//setters and getters

};

**Attachment 3 for Question 4**

class Array{

private:

//size represents the number of elements in the array

int size;

int \*ptr;

/\*This static variable is to determine how many instances of

\*the class Array is instantiated (created) This will be incremented in the constructor.\*/

static int arrayCount;

public:

Array();

Array(int aSize);

Array(const Array &obj);

~Array();

int getSize()const;

static int getArrayCount(){ return arrayCount; }

Array &operator=(const Array &obj);

void print(int) const;

void setElement(int e, int value) { ptr[e] = value; }

int &Array::operator[](int sub) const;

};

**Attachment 4 for Question 7**

#include <iostream>

using namespace std;

// Base class

class Dog

{

protected:

double weight;

public:

Dog(double w) { weight = w; }

void bark( ) const

{

cout << "I am a dog weighing "

<< weight << " pounds." << endl;

}

};

// A SheepDog is a special type of Dog

class SheepDog : public Dog

{

int numberSheep;

public:

SheepDog(double w, int nSheep) : Dog(w)

{

numberSheep = nSheep;

}

void bark( ) const

{

cout << "I am a sheepdog weighing "

<< weight << " pounds \n and guarding "

<< numberSheep << " sheep." << endl;

}

};

**Attachment 5: for Question 8**

#include<iostream>

using namespace std;

class Point

{

private:

int x, y;

public:

Point(){cout << "Default\n";}

Point(int x1, int y1){ cout << "Param\n";}

Point(const Point& p){ cout << "Copy\n"; }

Point operator=(const Point& p){ cout << "operator=\n"; return \*this;}

};