**Skeleton Code Handout for Lab 1**

**Directions:** You are to type this code in manually to get started on Lab 1.

// This is a program for determining the relative height of garden gnomes.

// Insert code and correct errors where INSERT and CORRECT are noted.

#include <iostream>

#include <string>

using namespace std;

class GardenGnome

{

public:

 // Here are the member function prototypes of GardenGnome.

 // INSERT missing line of code here.

 void setName(string);

 void setHeight(double);

 string getName();

 double getHeight();

 void inputHeight();

private:

 // Here are the private data members of GardenGnome.

 // INSERT missing line of code here.

 string gnomeName;

 // CORRECT the syntax error on the next line.

} // end class GardenGnome

// Implementation of the member functions starts here.

// INSERT constructor implementation here.

// It should accept a single string parameter which is assigned to

/ gnomeName, and initialize gnomeHeight to zero.

// Member function to set gnomeName

void GardenGnome::setName(string name)

{

// INSERT missing line of code here.

}

// Member function to set gnomeHeight

void GardenGnome::setHeight(double hgt)

{

 gnomeHeight = hgt;

}

// Member function to get gnomeName

string GardenGnome::getName()

{

 return gnomeName;

}

// INSERT implementation of getHeight() here.

// it should return the value of gnomeHeight

// INSERT implementation of inputHeight() here

// it should prompt the user for the gnome height and set gnomeHeight

// accordingly

// End implementation of member functions.

int main()

{

 // Instantiation of object gnome1 of class GardenGnome.

 // The constructor (implemented above) should set gnome1.gnomeName to

 // be Michael

 GardenGnome gnome1("Michael");

 // INSERT instantiation of object gnome2 of class GardenGnome.

 // The constructor (implemented above) should set gnome2.gnomeName to

 // be Melissa

 // Here we are calling member functions to prompt the user for the

 // heights and set gnomeHeight

 gnome1.inputHeight();

 // CORRECT syntax error on next line

 gnome2.inputHeight()

 // INSERT code to compare the heights of gnome1 and gnome2, and output

 // information about which gnome is taller or if they are of equal

 // height

 return 0;

}