- Create a basic program that incorporates the INHERITANCE concept
- Every class has a default Constructor.
 - Tell user which class the constructor belongs to in the print screen, as see in the result screenshot
- Base class is called Animal (Animal.h, Animal.cpp)
 - Instances of animal class have these private data.

STRING

Species: what kind of animal it is

Habitat: where it lives

Food: what it normally eats

Type: carnivore or herbivore

INTEGER

Weight: how much the animal weighs getter setter

- Create mutator and accessor functions for each private data above.
- Create a getInfo() function that prints all the information as seen in the result screenshot.

- Subclasses Herbivore and Carnivore inherit Animal class.
 - Create Herbivore.h, Herbivore.cpp, Carnivore.h, Carnivore.cpp
 - Herbivores eat grass and Carnivores eat meat
 - In the default constructor of each Animal type call mutator function for FOOD appropriately.
- Create 2 functions in Herbivore and Carnivore class that override Animal
 - In the example screenshot, the functions are training and feeding, but you can be creative with these!

```
#ifndef ANIMAL_H

Don't forget to use #define ANIMAL_H appropriately for header files #endif
```

 In the main class, create instances of Herbivore and Carnivore, and use the inherited functions from Animal.

Main.cpp

```
⊟#include "carnivore.h"
 #include "herbivore.h"
 #include <iostream>
 #include <string>
 using namespace std;
□int main()
     Carnivore animalOne = Carnivore();
     animalOne.
     animalOne.
     animalOne.
                         Fill in
     animalOne.
     animalOne.
     animalOne.
     animalOne.
     cout << endl;
     Herbivore animalTwo = Herbivore();
     animalTwo.
     animalTwo.
     animalTwo.
                         Fill in
     animalTwo.
     animalTwo.
     animalTwo
     animalTwo.
     system("pause");
```

Result Example

```
D:\2017\2017-2\C++\hw7\hw7\Debug\hw7.exe
This is Animal Class Constructor
This is Carnivore constructor
I am a Tiger
 eat meat
  am a Carnivore!
I weigh 80Kg
I live in the Mountain
Carnivore was fed well with meat
Carnivore ran trained in axe throwing
This is Animal Class Constructor
This is Herbivore constructor
I am a Deer
 eat grass
  am a Herbivore!
I weigh 40Kg
I live in the Savanna
Herbivore was fed well with grass
Herbivore was trained in Juggling
Press any key to continue . . .
```

- How to submit.
 - Download the template for homework from class board in HisNet, and write report.

The report should include

- Codes with comments
 Especially methods you created and the overridden functions.
- 2. 'Screen shot of the result'
- Submit 'report' and 'codes' in zip file.
 Please follow the file naming rule. HW7_(Student Number) _(Name).zip ex: HW7_201101234_HongGilDong.zip
- Upload it to HisNet.

Deadline: 11.16 (Thursday), 23:00