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1. Perform the following tasks.
2. Define a base class called **Person**, which has the following members:

**Private** Data Items:

 Name, SSN , age, City, Phone

**Public** Functions:

Person() // constructor print a message "person constructor"

 ~Person() // destructor print a message "person destructor"

 set\_info() // set for the above info (user input in the function).

 print\_info() // prints all the info for this class.

1. Now define a class called **Student**, which is **publicly derived** from **Person**. It should have the following public members:

**private** Data Items:

 Major // engineering, business, history, etc.

 Hours // how many Hours student has learned

 GPA // Grade Point Average

**Public** Functions:

 set\_info() // a function that sets for student info (user input in the function).

 print\_info() // print the stored information

 Student() // constructor print a message "student constructor"

 ~Student() // destructor print a message "student destructor"

1. Write a short main() program which define an object of the class Student**,** the object name will be your name.
2. Supply all the information through the set\_info() functions, both functions are called in main.
3. Print the data out using the two print functions.



1. On the same Question above change the access ID for the inheritance to **private** .What are the changes you need to do in the class to still perform the same as Q1

**Turn in the .CPP file and the screen output**.