**Lab Exercise 8:**

Q1: Follow the steps:

* Create a class, Triangle. Its \_\_init\_\_() method should take self, angle1, angle2, and angle3 as arguments. Make sure to set these appropriately in the body of the \_\_init\_\_()method.
* Create a variable named number\_of\_sides and set it equal to 3.
* Create a method named check\_angles. The sum of a triangle's three angles is It should return True if the sum of self.angle1, self.angle2, and self.angle3 is equal 180, and False otherwise.
* Create a variable named my\_triangle and set it equal to a new instance of your Triangle class. Pass it three angles that sum to 180 (e.g. 90, 30, 60).
* Print out my\_triangle.number\_of\_sides and print out my\_triangle.check\_angles().

Q2: Define a class called Songs, it will show the lyrics of a song. Its \_\_init\_\_() method should have two arguments:self and lyrics.lyricsis a list. Inside your class create a method called sing\_me\_a\_song that prints each element of lyricson his own line. Define a varible:

happy\_bday = Song(["May god bless you, ",

"Have a sunshine on you,",

"Happy Birthday to you !"])

Call the sing\_me\_song method on this variable.

Q 3: Define a class called Lunch.Its \_\_init\_\_() method should have two arguments:selfanf menu.Where menu is a string. Add a method called menu\_price.It will involve a ifstatement:

* if "menu 1" print "Your choice:", menu, "Price 12.00", if "menu 2" print "Your choice:", menu, "Price 13.40", else print "Error in menu".

To check if it works define: Paul=Lunch("menu 1") and call Paul.menu\_price().

Q4: Write a Python class which has two methods get\_String and print\_String. get\_String accept a string from the user and print\_String print the string in upper case.

Q5: Write a program to find the area and perimeter of a rectangle using classes and objects. Program output should be like this:

