

# Lab#9 Activity:-

1. Write a class Time which represents time. The class should have three fields for hours, minutes and seconds. It should have constructor to initialize the hours, minutes and seconds. A function print Time() to print the current time. Make a friend function to access time and convert it to total seconds.  $1h=60*60$  seconds
2. Define a class named PrimeNumber that stores a prime number. Add a function to get the prime number.
  - Finally, overload the prefix and postfix ++ and – operators as **non-member functions** so they return a PrimeNumber object that is the next largest prime number (for ++) and the next smallest prime number (for --).
  - Make a friend class WholeNumber that can access all private and protected members of PrimeNumber class.
3. Complete the following tasks:
  - a. Design a Meal class with two fields—one that holds the name of the entrée, the other that holds a calorie count integer. Include a constructor that sets a Meal's fields with parameters, or uses default values when no parameters are provided.
  - b. Include an overloaded insertion operator function that displays a Meal's values.
  - c. Include an overloaded extraction operator that prompts a user for an entrée name and calorie count for a meal.
  - d. Include an overloaded operator+()function that allows you to add two or more Meal objects. Adding two Meal objects means adding their calorie values and creating a summary Meal object in which you store "Daily Total" in the entrée field.