

## Assignment 5

1. Design a **Time** class and meet the following requirements
    - Has the data members to represent the hour, minute and second.
    - Correct initialization and check the validity of data.
    - Has the get and set functions for the data members hour, minute and second.
    - Display the current time as the format of 24 hours or 12 hours plus a.m. or p.m.
    - Write a main function to testify your class design.
  2. Design a **Complex** class to realize the addition, subtraction, multiplication , division of complex and write a main function to testify your design.
  3. Design a **Triangle** class and it should be
    - Calculate the circumference and area of the triangle.
    - Reasonable initialization and for the three sides of the triangle, the default value should be 1.
    - Check the validity of the length of three sides.
    - Write a main function to testify your class design.
- ✧ Note:  
Save the source code above with the name [StudentID\\_Name\\_5\\_1.rar](#), [StudentID\\_Name\\_5\\_2.rar](#), and [StudentID\\_Name\\_5\\_3.rar](#) and submit the final file "[StudentID\\_Name\\_5.rar](#)" which includes the above three rar files.
- ✧ Submit your assignment before the end of next Monday (April 1) to the Superstar platform!