Task # 01 (10 points)

Design and implement a class dayType that implements the day of the week in a program. The class dayType should store the day, such as Sun for Sunday. The program should be able to perform the following operations on an object of type dayType:

- Set the day.
- Print the day.
- Return the day.
- Return the next day.
- Return the previous day.
- Calculate and return the day by adding certain days to the current day. For example, if the current day is Monday and we add 4 days, the day to be returned is Friday. Similarly, if today is Tuesday and we add 13 days, the day to be returned is Monday.
- Add the appropriate constructors.

Write the definitions of the functions to implement the operations for the class dayType as defined above. Also, write a program to test these operations on this class in main program.

Task # 02 (10 points)

In this exercise, you will design a class **memberType**.

a. Each object of **memberType** can hold the name of a person, member ID, number of books bought, and amount spent.
b. Include the member functions to perform the various operations on the objects of **memberType**—for example, modify, set, and show a person's name. Similarly, update, modify, and show the number of books bought and the amount spent.
c. Add the appropriate constructors.
d. Write the definitions of the member functions of **memberType**.
e. Write a program to test various operations of your class **memberType**.

Task # 03 (10 points)

Create a structure called employee that contains these members: an employee number (type int), employee name (type string), employee age (type int) and the employee's compensation (in dollars; type float). Include the following member functions for an employee:

- Default constructor
- Constructor with parameters
- Destructor
- Set function for each data member
- Get function (value-returning) for each data member
- Print function for each data member
- Update function for each data member

Ask the user to fill in this data for three employees, store it in three variables of type employee, and then display the information for each employee.