Design and implement a class **dayType** that implements the day of the week in a program. The class **dayType** should store the day, e.g. **Mon**, **Tue**, **Wed**, **Thu**, **Fri**, **Sat** and **Sun** for each day of the week. The program should be able to perform the following operations on an object of type **dayType**:

1. Set the day (method ***setDay***).
2. Print the day (method ***print***).
3. Return the day (method ***getDay***, type **string**).
4. Return the next day (method ***nextDay***, type **string**).
5. Return the previous day (method ***previousDay***, type **string**).
6. Calculate and return the day (method ***addDay***, type **string**) 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.
7. Add a default constructor (set day to **Mon**) and a constructor with parameters.

You should also write a program (in *main\_init.cpp*) to test the above operations of the class.