Communication Software Design

Lab 05 Enumeration and operator overloading

11/01/2019

Following what we have learned in the lecture to practice the technique of operator overloading. We define an enumeration type Day in which we use 1, 2, 3, 4, 5, 6, 7 to represent Monday, Tuesday, …, Sunday, respectively.

Please implement the remaining part of this program so that the given code (below) will print out the message as its followed comment (in green color).

[Hint]

For example, when the user type in 4, the program will create a Day which is Thursday and print out the message "Today is Thursday". This requires to overload both the cin operator **>>** and the cout operator**<<**.

```
enum Day {
monday=1, tuesday, wednesday, thursday, friday, saturday, sunday
};
//overload your operators here…..
int main()
{
        cout<<"Please select a day from monday to Sunday ";
        cout<<"(1= monday, 2 = tuesday, and so on...)"<<endl;
        Day day1;
        cin>>day1;            // e.g. the user type in 4
        cout<<day1<<endl;     //  Today is Thursday.

        Day day2 = sunday;
        cout<<"Test prefix/postfix increment"<<endl;
        cout<<++day2;           //  Today is Monday.
        cout<<day2++;           //  Today is Monday.
        cout<<day2;             //  Today is Tuesday.

        cout<<"Test prefix/postfix increment"<<endl;
        Day day3 = Day(1);
        cout<<day3--;           //  Today is Monday.
        cout<<--day3;           //  Today is Saturday.
        cout<<day3;             //  Today is Saturday.
```