**Planning for DayType Class**

View as an ADT

Name: DayType

Domain {Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday}

Operations:

1. Set the day.
2. Print the day.
3. Return the day.
4. Return the next day.
5. Return the previous day.
6. Set the day by adding a certain number of days to the current day. For example, if the current day is Monday and we add 4 days, the new day is Friday. Similarly, if today is Tuesday and we add 13 days, the new day is Monday.
7. Include the appropriate constructors.

Attributes of a DayType object: Name of the day of the week(name) only be one of the values from the restricted domain(above).

Class Invariant – Day must match one of the items in the domain. The days are ordered where Sunday comes first, then Monday, then Tuesday, etc.

Member Functions:

SetDay(string aDay)

* Pre-Condition: The day is supplied and must be one of the designated days.
* Post-Condition: The day is stored as an instance variable if valid, otherwise the day is set to “Sunday”.

Print()

* Post-Condition: Output the day value.

GetDay()

* Post-Condition: Returns the day as a string.