Lecture 10 questions

(These exercises are relevant for chapter 5 in Dierbach and chapter 4 in Sargent and Stachursky.)

A1. Make a function which prints "Hi Everybody!" to screen.

A2. Make a function which takes a parameter called age and prints "You are … years old." For example, "You are 21 years old".

A3. Make a function called my_square(n), which takes a parameter n, squares it, and returns the square of n.

A4. Make a function which takes an integer n and prints the even numbers which are less than or equal to n. For example, if n is 10, then the function should print 2, 4, 6, 8, and 10.
(Hint: you can get even numbers by $even = x \cdot 2$ where x is a natural number (1,2,3…))
(Odd numbers are defined like this: $odd = x \cdot 2 + 1$)

P1. Write a Python function called addDailyTemp that prompts the users for the average temperature for a day of the week and store the information in a dictionary. The function should add the temperature to the dictionary only if it does not already contain a temperature for that day. Write a program that keeps asking until the dictionary contains average daily temperature for each day of a week, and that displays the result.

P2. Write a Python function named moderateDays that takes a dictionary containing the average daily temperature for each day of a week, and returns a list of the days in which the average temperature was between 20 and 25 degrees.

P3. Write a Python function named getWeekendAvgTemp that takes a dictionary of daily temperatures, and returns the average temperature over the weekend (Saturday and Sunday) for the weekly temperatures given.