2.11 Write Python expressions corresponding to these statements:	
(a) The sum of negative integers -7 through -1	
(b) The average age of a group of kids at a summer camp given that 17 are 9 years old, 24 are years old, 21 are 11 years old, and 27 are 12 years old	10
(c) 2 to the power -20	
(d) The number of times 61 goes into 4356	
(e) The remainder when 4365 is divided by 61	
2.14 Start by executing	
s = 'goodbye'	
Then write a Boolean expression that checks whether:	
(a) The first character of string s is 'g'	
(b) The seventh character of s is 'g'	
(c) The first two characters of s are 'g' and 'a'	
(d) The next to last character of s is 'x'	
(e) The middle character of s is 'd'	
(f) The first and last characters of strings are equal	
(g) The last four characters of string s match the string 'tion'	
<i>Note:</i> These seven statements should evaluate to True, False, False, False, True, False, and False, respectively.	
2.16 Write the corresponding Python assignment statements:	

(a) Assign 6 to variable a and 7 to variable b.

(b) Assign to variable c the average of variables a and b.

- (c) Assign to variable inventory the list containing strings 'paper', 'staples'. and 'pencils'.
- (d) Assign to variables first, middle and last the strings 'John', 'Fitzgerald', and 'Kennedy'.
- (e) Assign to variable fullname the concatenation of string variables first, middle, and last. Make sure you incorporate blank spaces appropriately.
- 2.17 Using variables defined in Exercise 2.16, write Boolean expressions corresponding to the following logical statements and evaluate the expressions:
 - (a) The sum of 17 and -9 is less than 10.
 - (b) The length of list inventory is more than five times the length of string fullname
 - (c) c is no more than 24.
 - d) 6.75 is between the values of integers a and b.
 - (e) The length of string middle is larger than the length of string first and smaller than the length string last.
 - (f) Either the list inventory is empty or it has more than I 0 objects in it.
- 2.18 Write Python statements corresponding to the following:
 - (a) Assign to variable flowers a list containing strings 'rose'. 'bougainvillea', 'yucca', 'marigold', 'daylilly '.and 'lilly of the valley'.
 - (b) Write a Boolean expression that evaluates to True if string 'potato' is in list flowers, and evaluate the expression.
 - (c) Assign to list thorny the sublist consisting of the first three objects in list flowers.
 - (d) Assign to list poisonous the sublist consisting of just the last object of list flowers.
 - (e) Assign to list dangerous the concatenation of lists thorny and poisonous.

- 2.22 The range of a list of numbers is the largest difference between any two numbers in the list. Write a Python expression that computes the range of a list of numbers 1st. If the list 1st is, say, [3, 7, -2, 12], the expression should evaluate to 14 (the difference between 12 and -2).
- 2.28 Write the relevant Python expression or statement, involving a list of numbers lst and using list operators and methods for these specifications:
 - (a) An expression that evaluates to the index of the middle element of lst
 - (b) An expression that evaluates to the middle element of 1st
 - (c) A statement that sorts the list 1st in descending order
 - (d) A statement that removes the first number of list lst and puts it at the end

Note: If a list has even length, then the middle element is defined to be the rightmost of the two elements in the middle of the list.