CSCI-101 Pre-lab Assignment

Problem Description

In the hw directory of your repository, create a file named **ArrayFun.java** write code that does the following.

1. Create a method named **printArray** that takes an array of integers as an argument and prints the elements in the array on a single line with spaces between them.

2. In **main()**, do the following:
   - Create an array of integers named **array1** of length 10 that holds 10 integers and initializes the array with the numbers between 1 and 10 (inclusively).
   - Print the elements in **array1** to the screen by calling **printArray**.

   - Use a for-loop to set the elements with even indices in **array1** to the value 0.
   - Print the elements in **array1** to the screen by calling **printArray**.

   - Set the elements in **array1** with values greater than 5 to the value -1.
   - Print the elements in **array1** to the screen by calling **printArray**.

   - Create a second array of integers named **array2** of length 10.
   - Use a for-loop to set the elements of **array2** with the same values that are in **array1** and in the same order.
   - Print the elements in **array2** to the screen by calling **printArray**.

3. Create a method named **printReverseArray** that takes an array of integers as an argument and prints the elements in the array in reverse order on a single line with spaces between them.

4. In **main()**, do the following:
   - Print the elements in **array2** to the screen in reverse order by calling **printReverseArray**.
   - Set the elements in array2 to 10 integers that are read in from the keyboard.
   - Print the elements in **array2** to the screen by calling **printArray**.

5. Create a method named **sumArray** that takes an integer array as an argument and returns the sum of the values in the array.

6. In **main()**, do the following:
   - Compute and the sum of the integers in **array2** by calling **sumArray**. Print the sum to the screen.