**Practice Exercise JAVA**

1. Write a function to accept temperature value from user (in centigrade) and display an appropriate message as below.

FREEZING if temperature in less than 0

COLD if temperature is between 0 to 15

WARM if temperature is between 16 to 30

HOT if temperature is between 31 to 40

VERY HOT if temperature is greater than 40

1. Write a function that takes four String arguments and returns the concatenated string.
2. A parking garage charges a $2.00 minimum fee to park for up to three

hours. The garage charges an additional $0.50 per hour for each hour in excess of three hours. Write a function that calculates and displays the parking charges for each customer who parked in the garage yesterday. You should enter the hours parked for each customer.

1. Write method distance to calculate the distance between two points (x1, y1) and (x2, y2). All numbers and return values should be of type double. Incorporate this method into an application that enables the user to enter the coordinates of the points.
2. Write statements to do the following:  
   a. Create an array to hold **10** double values.  
   b. Assign the value **5.5** to the last element in the array.  
   c. Display the sum of the first two elements.  
   d. Write a loop that computes the sum of all elements in the array.  
   e. Write a loop that finds the minimum element in the array.  
   f. Randomly generate an index and display the element of this index in the array.  
   g. Use an array initializer to create another array with the initial values **3.5**, **5.5**,  
    **4.52**, and **5.6**.
3. Write a methods that return the average of an array with following header:  
   public static double average(double[] array)  
   Write a test program that prompts the user to enter ten double values, invokes this  
   method, and displays the average value.
4. Write a method that finds the smallest element in an array of double values using the following header:  
   public static double min(double[] array)  
   Write a test program that prompts the user to enter ten numbers and call this  
   method to return the minimum value, and displays the minimum value.
5. Write the method that reverses the array passed in the argument and returns this array.
6. Write a method that returns a new array by eliminating the duplicate values in the array using the following method header:  
   public static int[] eliminateDuplicates(int[] list)
7. Write a function that prompts the user to enter a string and displays its length and its first character.
8. Write a function that prompts the user to enter two strings and return the last character.
9. Assume a vehicle plate number consists of three uppercase letters followed by four digits. Write a function that takes the vehicle number as argument and returns the plate number only.