WIX1002 Fundamentals of Programming Tutorial 5 Arrays

- 1. Write statements for each of the following
 - a. Declare an array that used to store 12 floating point numbers.
 - b. Initialize an array that used to store the value of A to E.
 - c. Declare an array that used to store 100 students name.
 - d. Declare an array for a table with 6 rows 2 columns that used to store integer value.
 - e. Initialize an array with the following value:

$$\begin{pmatrix} 6 & 9 \\ 2 & 5 \\ 4 & 6 \end{pmatrix}$$

f. After initialize the array, modify the value of the above array to

$$\begin{pmatrix} 6 & 9 \\ 2 & 4 \\ 3 & 7 \end{pmatrix}$$

- g. Display all the values of an array name contact in separate lines.
- 2. Correct the error for the following statements.

```
a. String[] code = {'AAA', 'AAB', 'AAC', 'AAD'};
b. int[] num = new num[10]; for(int k=0; k<=num.length(); k++) sum+=num;</li>
c. int [][]t = new int[3][]; t[1][2] = 5;
d. int i=4; int []score = new int[5]; score [1] = 78; score[++i] = 100;
```

3. Determine the values of each element of array marks. Assume the array was declared as:

```
int[] marks = new int[5];
int i = 0, j = 1;
marks[i] = 12;
marks[j] = marks[i] + 19;
marks[j-1] = marks[j] * marks [j];
marks[j*3] = marks[i+1];
marks[++j] = marks[i]%5;
marks[2*j] = marks[j-1];
```

- 4. Write the statements that display the number of occurrence of the word "the" (case sensitive) in a string array name sentence.
- 5. Write the statements that display the string array name sentence in reverse order. Each string element must be displayed in reverse order as well.
- 6. Write the statements that generate 1 random integer within 0 255. Convert the number to binary and store the bit into an 8 bit array. Then, display the binary number.