## **Practical 19 April**

1) WAP called printStarArray which prompts the user for the number of items in an array (a non-negative integer). It then prompts the user for the values of all the items (non-negative integers) and saves them in an int array called items. The program shall then print the contents of the array in a graphical form, with the array index and values represented by the number of stars.

```
Enter the number of items: 5
Enter the value of all items (separated by space): 7 4 3 0 7
0: ******(7)
1: ****(4)
2: ***(3)
3: (0)
4: *******(7)
```

2) Write a program called Hex2Bin that prompts the user for a hexadecimal string and prints its equivalent binary string.

```
Enter a Hexadecimal string: labc
The equivalent binary for hexadecimal "labc" is: 0001 1010 1011 1100
```

**Hint**: Use an array of 16 Strings containing binary strings corresponding to hexadecimal number 0-9A-F (or a-f), as follows:

```
String[] HEX_BITS = {"0000", "0001", "0010", "0011", "0100", "0101", "0110", "0111", "1000", "1001", "1010", "1011", "1100", "1111"};
```

**3)** A working Java program is all scrambled up. Reconstruct the code snippets to make a working Java program that produces the following output. You may use as many curly braces as you want to.

```
int y = 0;
                 ref = index[y];
           islands[0] = "Bermuda";
          islands[1] = "Fiji";
          islands[2] = "Azores";
          islands[3] = "Cozumel";
     int ref;
     while (y < 4) {
       System.out.println(islands[ref]);
        index[0] = 1;
        index[1] = 3;
        index[2] = 0;
         index[3] = 2;
  String [] islands = new String[4];
      System.out.print("island = ");
                                             class TestArrays {
         int [] index = new int[4];
                                               public static void main(String [] args) {
     y = y + 1;
File Edit Window Help Bikini
% java TestArrays
island = Fiji
island = Cozumel
island = Bermuda
island = Azores
```