

#Answer to the question no 1 of Bongo's Android Developer written test.

#Problem

Write a function that detects if two strings are anagram e.g. 'bleat' and 'table' are anagrams but 'eat' and 'tar' are not.

#Write a function for checking two string are anagram.

```
private static boolean areAnagram(char[] str1, char[] str2)
{
    // Get lengths of both strings
    int n1 = str1.length;
    int n2 = str2.length;

    // If length of both strings is not same,
    // then they cannot be anagram
    if (n1 != n2)
        return false;

    // Sort both strings
    Arrays.sort(str1);
    Arrays.sort(str2);

    // Compare sorted strings
    for (int i = 0; i < n1; i++)
        if (str1[i] != str2[i])
            return false;

    return true;
}
```

#Write a main function for checking two string are anagram.

```
public static void main(String[] args) {
    // TODO code application logic here
    Scanner myObj = new Scanner(System.in);

    System.out.println("Enter First String");

    String input1 = myObj.nextLine();
    System.out.println("Enter Second String");
    String input2 = myObj.nextLine();

    // convert String to character array
    // by using toCharArray

    char str1[] = input1.toCharArray();
    char str2[] = input2.toCharArray();
    if (areAnagram(str1, str2))
        System.out.println("The two strings are anagram of each other");
    else
        System.out.println("The two strings are not anagram of each other");
}
```

#Unit test Of function.

//Test of main method, of class StringAngram.

```
@Test
public void testMain() {
    System.out.println("main");
    String[] args = null;
    StringAngram.main(args);
    // TODO review the generated test code and remove the default call to fail.
    fail("The test case is a prototype.");
}
```

//Test of areAnagram method, of class StringAngram.

```
@Test
public void testAreAnagram() {
    System.out.println("areAnagram");
    char[] str1 = null;
    char[] str2 = null;
    boolean expResult = false;
    boolean result = StringAngram.areAnagram(str1, str2);
    assertEquals(expResult, result);
    // TODO review the generated test code and remove the default call to fail.
    fail("The test case is a prototype.");
}
```