

**Select the appropriate methods from the `String` class using the API, for each of the following questions:**

1. Modify this program so that it will display an appropriate message if the first `String` either starts with, or ends with the second `String`.

```
Please enter the first String: Hello World
Please enter the second String: World
Hello World contains the text World
Hello World ends with the text World
```

2. Write a program that accepts two `String` values from the user and will display them in dictionary order. Sample output:

```
Please enter the first String: Zebra
Please enter the second String: Apple
Apple comes before Zebra in the dictionary
```

3. Write a program that allows the user to enter a 14 digit telephone number as a `String` and extracts the 5 digit country code, the 3 digit area code (2 digits and include the 0), the two digit exchange (91) and the remaining 5 numbers as separate `Strings`. Print each `String` and then print the phone number in the usual format, using the new `Strings`.

```
Input 14 digit phone number: 0035374912222
Country code      Area Code      Exchange      Number
00353             074             91             2222
```

4. Write a program that will ask the user to enter their full name as a single `String`. The program will then print out the user's initials. Assume that the `String` will include a first name, a middle name, and a surname.

```
Enter your full name: John Winston Lennon
Your initials are JWL
```

5. Open the Java API and investigate the `split()` method of the `String` class. Write a program that will ask the user to enter their full name as a single `String`. The program will then print out each name on its own line.

```
Enter your full name: John Winston Lennon
John
Winston
Lennon
```

6. Rewrite the program from Question 4 so that it uses the `split()` method to print out the initials of any name. Note how this will work regardless of how many names are in the full name.

```
Enter your full name: George Oscar Bluth
Your initials are GOB
```