LAB 1 REQUIREMENTS

Problem:

In this lab, you will use the VISUAL STUDIO programming environment to develop your first program. The program will display directions to our Engineering Center. With this requirements document I also provided the OU 2015 Campus Map (you can get a newer one from online if you'd like), you will be using this OU Campus Map image file to display directions to our Engineering Center.

Engineering Center is building 39 on this map. I also provided another image file as a reference for you to use for building numbers, you will not need to use this image file on your form, it is for reference only.

PART A

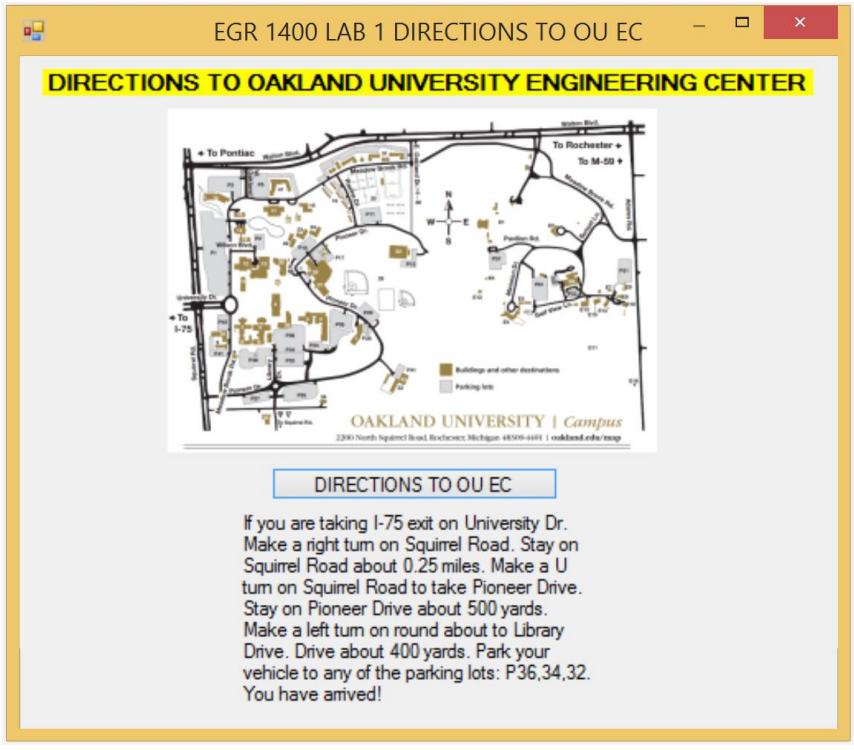
Your form must contain the following controls

- Picture Box named as **picBoxOU** containing the OU Campus Map image.
- A label named as **lblTitle** on top of your form as a title that states: Directions to Oakland University Engineering Center
- A button named as **btnDisplay**
- Another label named as **lblOutput** at the bottom of your form which will become visible when clicked on **btnDisplay**, to show the directions to OU EC

PART B

- Set the header on your form to contain the following text: **EGR 1400 LAB 1 DIRECTIONS TO OU EC** using your form's text property
- Make sure to set lblOutput's visibility property to False when the form starts so that it does not appear when you first run the program as shown in the example on the following page.
- When the user clicks on a button, your form should display the lblOutput containing the directions. You can use your own way of getting to OU as directions. I used an example of taking I-75, if you are not taking I-75, use Walton Blvd for providing directions to OU EC. Feel free to choose any which way you prefer to provide these directions.
- Please see the sample run images provided for you on the next page.

Directions must be displayed **only** when clicked on a button



Directions must be displayed **only** when clicked on a button

It's not necessary to have your directions show on different lines as shown in the example; you may display them as a paragraph. Also, in any lab in EGR 1400, use your own style; your program does not have to look exactly like the example.

STEPS FOR SUBMITTING YOUR LAB:

For each lab, the following comments must be added at the beginning of your C# code. You can copy and paste the header below into the top of your code window (where you type code for the events that you selected).

```
/*
'LAB #
'SEMESTER NAME
'STUDENT'S FIRST NAME, LAST NAME
'I fully understand the following statement.
'OU PLAGIARISM POLICY
'All members of the academic community at Oakland are expected to practice and uphold
'standards of academic integrity and honesty. An instructor is expected to inform and instruct
'students about the procedures and standards of research and documentation required of students
'in fulfilling course work. A student is expected to follow such instructions and be sure the rules
'and procedures are understood in order to avoid inadvertent misrepresentation of his/her work.
'Students must assume that individual (unaided) work on exams and lab reports and documentation
'of sources is expected unless the instructor specifically says that is not necessary.

'The following definitions are some examples of academic dishonesty:

    • 'Plagiarizing from work of others. Plagiarism is using someone else's work or ideas without
      'giving the other person credit; by doing this, a student is, in effect, claiming credit for
      'someone else's thinking. Whether the student has read or heard the information she/he
      uses, 'the student must document the source of information. When dealing with written
      sources, 'a clear distinction would be made between quotations (which reproduce
      information from 'the source word-for-word within quotation marks) and paraphrases
      (which digest the 'source information and produce it in the student's own words). Both
      direct quotations and 'paraphrases must be documented. Just because a student rephrases,
      condenses or selects 'from another person's work, the ideas are still the other person's,
      and failure to give 'credit constitutes misrepresentation of the student's actual work and
      plagiarism of 'another's ideas. Naturally, buying a paper and handing it in as one's own
      work is 'plagiarism.
    • 'Cheating on lab reports falsifying data or submitting data not based on student's own work.
*/
```

All labs will be submitted electronically, no paper copies will be given to Lab mentors.

Before submission:

- Please create a folder named as Lab1_FName_LName:
- **Place your solution file in this folder.**
- **Zip the folder** then upload it to Moodle. You will not be able to upload unless you zip, 7zip or rar the folder.

GETTING READY FOR AN INTERVIEW with your Lab Mentor:

For this lab, the interview is 40% of your lab grade. Make sure to be prepared for your mentor's questions about your program.

When it is your turn to explain your lab to your Lab mentor follow these steps **while your lab mentor is present**:

1. Log on to Moodle.
2. Find your submission link for this lab.
3. Download your Lab on your computer
4. Find your lab wherever you downloaded it to.
5. Make sure to Unzip, (or extract) your folder
6. Open the solution file to demo your lab.

You must follow these steps each time you are being graded for your lab. Your lab mentor must confirm that you downloaded what was submitted on Moodle. You should be graded on what was uploaded on Moodle, not on a local copy obtained from your C drive or external drives (i.e. memory sticks).

HOW WILL YOU BE GRADED BY YOUR LAB MENTOR, AND WHAT IS THE GRADING CRITERIA?

1. The application works and was fully tested from what was downloaded and demonstrated from Moodle (not from a local copy, or any external drive). (50 points)
2. Proper naming conventions were followed as explained in class (10 points)
3. Grade assigned based on oral examination of the students understanding of their solution and the overall quality of the solution (40 points)

GRADE: _____ out of 100