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**ASSIGNMNET -1**

**INSTRUCTIONS:**

Please keep the following in mind:

• Do not share your code with anyone else. All assignments are to be done individually.

• You must be able to explain any part of your submitted code.

• You must submit the **.c** files only. Make sure you name as rollno\_name\_dept\_sec.c

For example: **P23\_1234\_Name\_CS\_1D**

• Make sure you follow the naming schemes of the **.c** files correctly. Failure to do so will result in getting **ZERO.**

• No submissions other than **Classroom/Slate** will be entertained.

• Make sure your code compiles and runs. If a piece of code fails to compile, you’ll be given a **ZERO.**

• All submissions will be checked for plagiarism. You are not allowed to copy code from the internet or any other individual.

• Any sort of plagiarism will lead to **ZERO.**

**Q1. Distance Calculator**

Write a program that calculates the distance between two points on a Cartesian plane. Prompt the user to enter the x and y coordinates of two points. Store the coordinates in variables. Calculate the distance between the points using the formula: distance = sqrt((x2 - x1)^2 + (y2 - y1)^2). Display the calculated distance.

**Q2. Time Converter**

Create a program that converts time from hours to seconds. Ask the user to input a time value in hours. Store the value in a variable and then calculate the equivalent time in seconds. Display the original time in hours and the converted time in seconds.