



**Indian Institute of Information Technology Sri City, Chittoor**  
(An Institute of National Importance under An Act of Parliament)

Name: **CP Lab - 2**

Duration: **3 Hrs**

Date: **27th December, 2021**

Maximum Marks: **10**

---

**INSTRUCTIONS:**

1. Please carefully read all assignment problems and write the required programs in the C language
2. **You should submit only a single C file containing all your answers. Make sure that during submission, no part of your code is commented.**
3. Name the file as follows: S2021xxxxx\_A2.c
4. DO NOT zip. Upload a single .c file directly to your submission in the common Google classroom.

***\*If you do not follow the above-mentioned instructions, a strict penalty would be imposed.***

---

**ASSIGNMENT PROBLEMS**

1. Write a C program to print your details in the following format:

\*\*\*\*\*

Name:

Roll Number:

Branch:

\*\*\*\*\*

You can just use 5 printf() statements to print this output.

2. Write a program to convert a distance inputted in metres to centimeters. Your program should ask the user to input a distance in metres. The program should convert the distance to centimeters and display the output.
3. Write a program to compute the area of a rectangle. Your program should ask the user to enter the length and width of the rectangle and should display the area of a rectangle.
4. Write a program to implement a simple calculator. The program should take as input two integer variables, a and b and print the results of the following operations:

- a. Addition
- b. Subtraction
- c. Multiplication
- d. Division
- e. Modulus

(Implement only a single program that performs all of these operations)

5. Write a program to compute the value of the following formula:  $\left(\frac{2x+4y}{2} + 3\right)z - \left(\frac{4z-6y}{2}\right)x$ . Your program should take as input the values of x, y and z, and print the value of the given equation. Do not make any simplifications to the formula.