

Assignment - 01

1. Information printing

You are tasked with writing a C program which takes your student ID(integer), marks(floating point number) and section(character) as input and prints them on the console as output.

Sample Input	Sample Output
Enter you section: O Enter your student ID: 1705026 Enter your marks: 92.5	Student ID: 1705026 Section: O Marks: 92.5
Enter you section: A Enter your student ID: 1805027 Enter your marks: 62.5	Student ID: 1805027 Section: A Marks: 62.5

2. Area Calculation

Program that will calculate the circumference and area of a circle having radius r.

$$\text{Circumference, } C = 2 * 3.1416 * r$$

$$\text{Area, } A = 3.1416 * r * r$$

You have to take the radius(floating point number) of the circle as user input.

Sample Input	Sample Output
Enter the radius of the circle: 5	Circumference: 31.42 Area: 78.54
Enter the radius of the circle: 10.5	Circumference: 65.97 Area: 346.36

3. Calculator operation

Write a C program that will take two integer numbers as input and print the results of their addition, subtraction, multiplication, quotient and remainder.

Sample Input	Sample Output
Enter the first number: 10 Enter the second number: 5	Addition: 15 Subtraction: 5 Multiplication: 50 Quotient: 2 Remainder: 0
Enter the first number: 8 Enter the second number: 3	Addition: 11 Subtraction: 5 Multiplication: 24 Quotient: 2 Remainder: 2

Each problem contains **5 marks**. The mark distribution is as follows:

Mark Distribution:

5

1. Properly taking inputs and saving them. (1)
2. Solving logic and proper implementation. (3)
3. Properly showing outputs. (1)

Submission guideline:

Solve each problem in a single C file. Create a folder with your student ID. Put the 3 source files (only .c files) into the folder. Zip the folder and submit it in **LMS**. If your ID is 12345, the zip file should be 12345.zip.

Deadline: 01-11-2023 (08:00 AM) Please remember this is a strict deadline. Under no circumstances, this deadline will change. **Failure to submit during the deadline will result in zero grades.**

DO NOT COPY from the internet, seniors, batchmates, or any other sources. You are always welcome to discuss and find the solutions together, but you must write your own code. If found out, there will be -100% marks reduction.

DO NOT PUT the question in chatGPT and ask it to write the answer. You may use the tool to learn more about the concepts or take additional help (such as how to use certain methods or how to do certain concepts) but do not directly use it to write code for the problem. If found out, there will be -100% marks reduction.