

UMass Boston CS 240
Homework 4
Due on April 20 at 5 PM (EST)

Information:

- Required comment on top of the program file, please fill the following details:
 - o Your Name,
 - o Date when created file,
 - o How you approached the solution
 - o Challenges faced.
- Following homework files need to be submitted on **Gradescope:**
The filenames are case sensitive, kindly put all filenames as lowercase.
 - o program1.c – 30 points
 - o program2.c – 20 points
 - o program3.c – 20 points
 - o program4.c – 20 points
 - o readme.txt – 10 points
 - Students worked with:
 - Books/Websites consulted:
 - Time spent on homework (hours):

Homework programs (4):

1. program1.c - C Program to find the name of the Physician by querying by Specialization. Use structures to store the doctors data.

Output:

Enter the number of doctors: 3

Enter the name and specialization of the doctors: Sam dermatologist
harry radiologist
tom cardiologist

Enter the number of queries: 2

Enter the query (1): cardiologist
Result (1): tom
Enter the query (2): radiologist
Result (2): harry

UMass Boston CS 240
Homework 4
Due on April 20 at 5 PM (EST)

2. program2.c - C Program to grade the student based on their Aggregate marks. Use structure to store the name, marks, total and grade.

Input/Output:

Name: John

Enter marks for subject 1 (out of 100): 90

Enter marks for subject 2 (out of 100): 90

Enter marks for subject 3 (out of 100): 90

Enter marks for subject 4 (out of 100): 90

Enter marks for subject 5 (out of 100): 90

Hello John, Your total marks are 450 and Grade A.

3. program3.c - Write a program to reverse a string using recursion.

Output:

Enter word: hello world

Reverse Output: dlrow olleh

4. program4.c - Write a program to convert a string to uppercase.

Output:

Enter string: hello world

Output string: HELLO WORLD