

Practice (I) Programming Design (I)

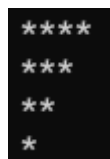
Name:

Student ID:

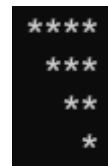
In this exam, you can use computers, books, and chatGPT to answer questions. Please upload programs of your answer. Each answering program corresponds to a question below. They are named 1.c, 2.c, ..., and 10.c. In the end of exam, hand over this paper to teacher.

Questions (10% for each):

- (1) Please give a declaration for 4 variables which are primitive data types respectively: integer, character, float and double. (10%)
- (2) Please write a C program to read 4 variables, belonging to integer, character, float and double, from users' keyboard and design to print out their value.
- (3) Please write an if-else program to test whether an input integer bigger than 20 or not. Your program should show the result on screen.
- (4) Please write a switch program to test an input integer to check whether it is 20, 21, 22, 23, 24 or else. Your program should show the result on screen.
- (5) Please write a for loop to display a single line with 4 stars.
- (6) Please write a for loop to display 4 lines and each has 4 stars.
- (7) Please write a while loop to display 4 lines and each has 4 stars.
- (8) Please write a while loop to display



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- (9) Please write a for loop to display

- (10) Please write a program with 2 variables executing arithmetic operations by users' choice.