

Homework #2

(Due date: 5 October 2023)

Objective :

Learn how to use the printf() and scanf() functions in C.

1.1

Write a program to input your student ID, name, height, weight, and blood type, then calculate the value of BMI and output all variables.

Hint : The formula of BMI is $\text{weight (kg)} / \text{height}^2 \text{ (m)}$.

Input :

B123456789, 王小明, 183.5, 67.25, 0

```
Please enter your student ID:B123456789
Please enter your name:王小明
Please enter your height:183.5
Please enter your weight:67.25
Please enter your blood type:0
```

Output :

```
Student ID:B123456789
Name:王小明
Height:183.500000
Weight:67.250000
Blood type:0
BMI:19.971935

-----
Process exited after 11.07 seconds with return value 0
請按任意鍵繼續 . . . |
```

1.2

Write a program to print the values of the characters "A", "a" and "0" in octal, decimal and hexadecimal representation.

Note : You can't declare the values of the characters directly.

Output :

```
A
Octal representation: 101
Decimal representation: 65
Hexadecimal representation: 41

a
Octal representation: 141
Decimal representation: 97
Hexadecimal representation: 61

0
Octal representation: 60
Decimal representation: 48
Hexadecimal representation: 30

-----
Process exited after 0.2134 seconds with return value 31
請按任意鍵繼續 . . .
```

Please note:: users of visual studio add the following code to your program's beginning

```
2  #pragma warning(disable:4996)
```

繳交格式及規定：

程式重點地方請加註解,給分也會酌量參考註解。

請繳交 .c 檔即可。

c 檔的檔名一律統一,以學號為檔名壓縮成一個以學號為名的壓縮檔

上傳,

上傳請一律繳交壓縮檔。

Example:

若學號為 B123456789, 則.c/.cpp 檔名為 B123456789.c ,

而壓縮檔名為 B123456789.rar 。

繳交期限 2023.10.05 (四) 09:00 分之前,逾期一律不收,

無輸入輸出及逾期者一律以 0 分計算。

作業請上傳中山網路大學 網大上傳方式:

1. 點選要繳交的作業,選擇「進行作業」。



2. 依照流程上傳檔案。

