

# Homework #1

**(Due date: 28 September 2023)**

### Objective :

## Learn how to use the printf() function in C

## 1.1

Write a program to print your student ID, and then use the asterisk symbols(\*) to draw the word "中山" in the command prompt.

Output :

```

My student ID is B123456789.

          *
          *
*****
*           *           *
*           *           *
*****
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          *
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*           *           *
*           *           *
*           *           *
*           *           *
*           *           *
*****

-----
Process exited after 1.124 seconds with return value 0
請按任意鍵繼續 . . . |

```

## 1.2

There are a equilateral triangle, a square, a circle, a cube and a cylinder. Suppose the sides of the triangle, the square, and the cube are 5, and that the radii of the circle and the cylinder are 9.

Write a program to print the areas of the triangle, the square, and the circle, then print the volumes of the cube and the cylinder with height 9.

Hint :  $\pi=3.14$ ,  $\sqrt{3}=1.73$

Output :

```
The area of the triangle is: 10.812500.  
The area of the square is: 25.000000.  
The area of the circle is: 254.340012.  
The volume of the cube is: 125.000000.  
The volume of the cylinder is: 2289.060059.  
  
-----  
Process exited after 1.391 seconds with return value 0  
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 2023.09.28 (四) 09:10 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。

