

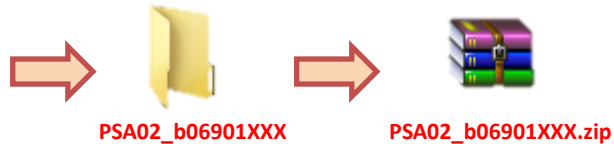
Programming Session Assignment 02

2017/10/03 by TA 陳俊伸 陳姿玲

REQUIRED FILES

Please **compress a folder** named **PSA02_b06901XXX**(student ID) that contains the following files:

- ✓ b06901XXX_p1.cpp
- ✓ b06901XXX_p2.cpp
- ✓ b06901XXX_p3.cpp
- ✓ b06901XXX_p4.cpp



Do not submit executable files (.exe). Files with names in wrong format will not be graded. In your .cpp files, we suggest you write comments in detail as possible as you can, that will be good for the TAs to read your code and your future reference and maintaining. (Due date: 10/04 06:00)

PROBLEM DESCRIPTION

1.

- (a) Please declare a variable called “**test**” with type **char** and assign it with ‘**H**’. Then use “**printf**” and “**cout**” to output its value in **dec**, **oct**, **hex**, and **char** formats.

Format:

```
printf test      : dec, oct, hex, char
cout test       : dec, oct, hex, char
```

- (b) Declare a variable “**test2**” with value **10.000789**, and then show its value up to the fourth digit after the decimal point and “**+**” in front of this value (e.g. +23.3454).

Format:

```
test2: value
```

2. Please output the answer after writing a program that declares a variable “x” with value 11.5 as following:

$$Ans = \left(\frac{((x + 33 - 22) \times 11) + 0.5}{8} \right) \% 10$$

Format:

```
The answer is: ###
```

3. There're some bugs in the file “PSA01_P3.cpp”. Try to fix them until there is no error or warning. Then make it work like this:

```
Let me tell you something interesting!!  
1798 means "go together" in Chinese.  
6868 means "slip away" in Chinese.
```

4. Write a program so you can input your ‘age’ (integer number), ‘height’ and ‘weight’ (floating-point number) and then output their values as follows.

Format:

```
How old are you?  
00  
What's your weight?  
XX.XX  
How tall are you?  
UUU.VV  
So, you are 00 years old  
and your weight is XX.XX kg  
and your height is UUU.VVV m.
```