# Homework #3

(Due date: 12 October 2023)

## **Objective:**

Learn to use if/else statements to do decision making.

#### 3.1

Write a program to input a month and a date, then output the zodiac sign which the date belongs to.

```
The zodiac table:
Aguarius (January 20 – February 18)
Pisces (February 19 – March 20)
Aries (March 21 – April 19)
Taurus (April 20 – May 20)
Gemini (May 21 – June 20)
Cancer (June 21 – July 22)
Leo (July 23 – August 22)
Virgo (August 23 – September 22)
Libra (September 23 – October 22)
Scorpio (October 23 – November 21)
Sagittarius (November 22 – December 21)
Capricorn (December 22 – January 19)
Input:
6, 13
Output:
```

```
Please enter the month:
6
Please enter the date:
13
06/13 belongs to Gemini.

Process exited after 1.594 seconds with return value 0
請按任意鍵繼續 . . .
```

### Error Handling:

```
Please enter the month:

13
Please enter correct month.

------
Process exited after 4.603 seconds with return value 0 請按任意鍵繼續 . . .
```

```
Please enter the month:

12
Please enter the date:

32
Please enter correct date.

Process exited after 3.796 seconds with return value 0
請按任意鍵繼續 . . .
```

#### 3.2

Write a program to calculate how much fine David haves to pay after checking his violation.

The violation table:

running a red light: \$3600

speeding: \$1200

riding without a license: \$24000 riding without a helmet: \$500

using the cell phone while riding: \$3000

riding in opposite direction: \$1800

#### Hint:

The ASCII codes of character Y and y are 89 and 121. The ASCII codes of character N and n are 78 and 110.

#### Input:

y, y, n, n, y, y

#### Output:

```
Did David run a red light?

y
Was David speeding?
y
Does David have a driver's license?
n
Was David wearing his helmet?
n
Was David using the cell phone while riding?
y
Was david riding in opposite direction?
y
David haves to pay $34100.
```

# 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 2023.10.12 (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。

