13-12:

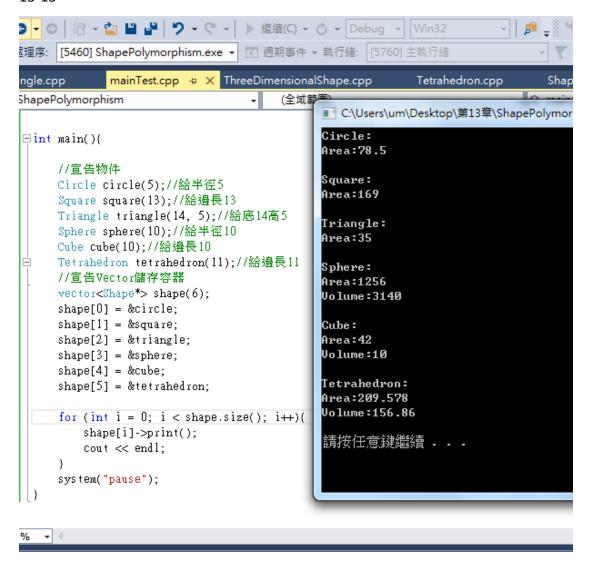
解說:這題我把 2015 年 5 月 25 日當作判斷加薪的依據,若生日在該月則加入 \$100 元進該員工的薪資如下:

```
- - X
I C:\Users\um\Desktop\第13章\EmpolyeeBirthDatePlus\Debug\EmpolyeeBirthDatePlus.exe
[*]加薪前
salaried employee: John Smith
social security number: 111-11-1111
birthDate: January 1, 1995
weekly salary: 800
hourly employee: Karen Price
social security number: 222-22-2222
birthDate: May 23, 1993
hourly wage: 16.75; hours worked: 40
earned$670
commission employee: Sue Jones
social security number: 333-33-3333
birthDate: September 9, 1997
gross sales: 10000; commission rate: 0.06
earned$600
base-salaried commission employee: Bob Le<mark>v</mark>is
social security number: 444-44-4444
birthDate: June 15, 1995
gross sales: 5000; commission rate: 0.04; base salary: 300
earned$500
[*]加薪後: (Today: May 25, 2015)
salaried employee: John Smith
social security number: 111-11-1111
birthDate: January 1, 1995
weekly salary: 800
earned$800
hourly employee: Karen Price
social security number: 222-22-2222
birthDate: May 23, 1993
hourly wage: 16.75; hours worked: 40
earned$770
сопитѕѕтон емртоуее. оне оонеѕ
social security number: 333-33-3333
birthDate: September 9, 1997
gross sales: 10000; commission rate: 0.06
earned$600
base-salaried commission employee: Bob Lewis
social security number: 444-44-4444
birthDate: June 15, 1995
gross sales: 5000; commission rate: 0.04; base salary: 300
earned$500
請按任意鍵繼續...
```

```
class Date
   friend ostream &operator << (ostream &, const Date &);
   Date(int m = 1, int d = 1, int y = 1900); // default
   void setDate(int, int, int); // set month, day, year
   Date & operator ++ (); // prefix increment operator
   Date operator++(int); // postfix increment operator
   const Date &operator+=(int); // add days, modify obj
   static bool leapYear(int); // is date in a leap year
   bool endoimonth(int) const; // is date at the end of
   int getMouth();
   int month;
                 這我新增一個方法
   int day;
                       快速取月份來判斷
   int year;
   // calculate earnings; override pure virtual function earnings in Employee
■double CommissionEmployee::earnings() const
      return getCommissionRate() * getGrossSales() + Employee::getAddEarning();
  } // end function earnings
 可直接加在earnings 方法return的後面,達成偷懶的效果
 這裡我原本想法是把const去掉,然後在把SET 跟 GET寫在earnings 裡面然後宣告一
 個earning來存他,再用這earning去加100,不過太麻煩了,這樣寫感覺比較輕鬆
```

當然其衍生類別的4個earnings都要加 這裡舉一圖作範例

```
void setbirthDate(int=1,int=1,int=1990);
Date getbirthDate()const;
int getMonth();
void AddEarning(double);
int getAddEarning()const;
private:
string firstName; 在Employ抽象類別新增的屬性
string lastName;
string socialSecurityNumber;
Date birthDate;
double addEarning=0;//加薪金額
```



這題就列出彼此繼承關係然後,然後用繼承寫出來 然後我有三個抽象類別(TwoDimensionalShape, ThreeDimensionalShape,Shape)和 六個具體類別(即 ScreenShot 上的)