

Java 物件導向

Bing & Liam

20170504

注意事項！！！！

1. 註解 和 生成 Javadoc (參考Ecourse - Javadoc example.pdf)
2. 此次須包含三個檔案, 上傳前再次檢查
 - a. Assignment3.java
 - b. Car.java
 - c. Makes.java
3. 壓縮且上傳, 學號記得再次檢查
4. 此次作業期限為 5/11

今日目標

解釋 & 練習 作業三

今日內容

1. 如何用 command line 執行 java 檔
2. 作業三 - 解釋題目
3. 作業三 - get, set, toString
4. 作業三 - 測試
5. 作業三 - 其他注意事項

如何用 command line 執行 java 檔

```
public class t1 {  
    public static void main(String[] args) {  
        System.out.println("Hello World!");  
    }  
}
```



如何用 command line 執行 java 檔(cont.)

- cd 移動
- dir 查看資料夾(Windows)
- ls 查看資料夾(Mac / Linux ... etc.)
- javac 編譯java檔, 產生class檔
- java 執行java檔

```
C:\Users\binda>cd Desktop/TEST
```

```
C:\Users\binda\Desktop\TEST>dir
磁碟區 C 中的磁碟沒有標籤。
磁碟區序號: AE31-B26F
```

C:\Users\binda\Desktop\TEST 的目錄

```
2017/05/02 上午 09:52 <DIR> .
2017/05/02 上午 09:52 <DIR> ..
2017/05/02 上午 09:48      108 tl.java
                  1 個檔案      108 位元組
                  2 個目錄  397,532,700,672 位元組可用
```

```
C:\Users\binda\Desktop\TEST>javac tl.java
```

```
C:\Users\binda\Desktop\TEST>dir
磁碟區 C 中的磁碟沒有標籤。
磁碟區序號: AE31-B26F
```

C:\Users\binda\Desktop\TEST 的目錄

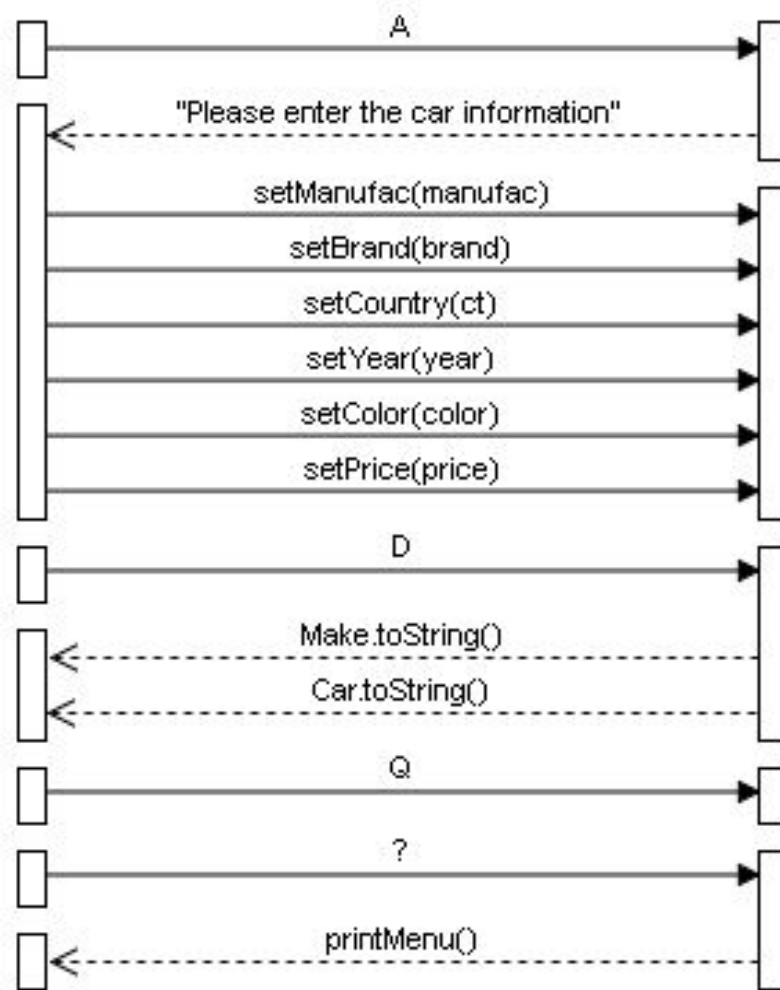
```
2017/05/02 上午 09:59 <DIR> .
2017/05/02 上午 09:59 <DIR> ..
2017/05/02 上午 09:59      410 tl.class
2017/05/02 上午 09:48      108 tl.java
微軟注音 半:  2 個檔案      518 位元組
                  2 個目錄  397,533,036,544 位元組可用
```

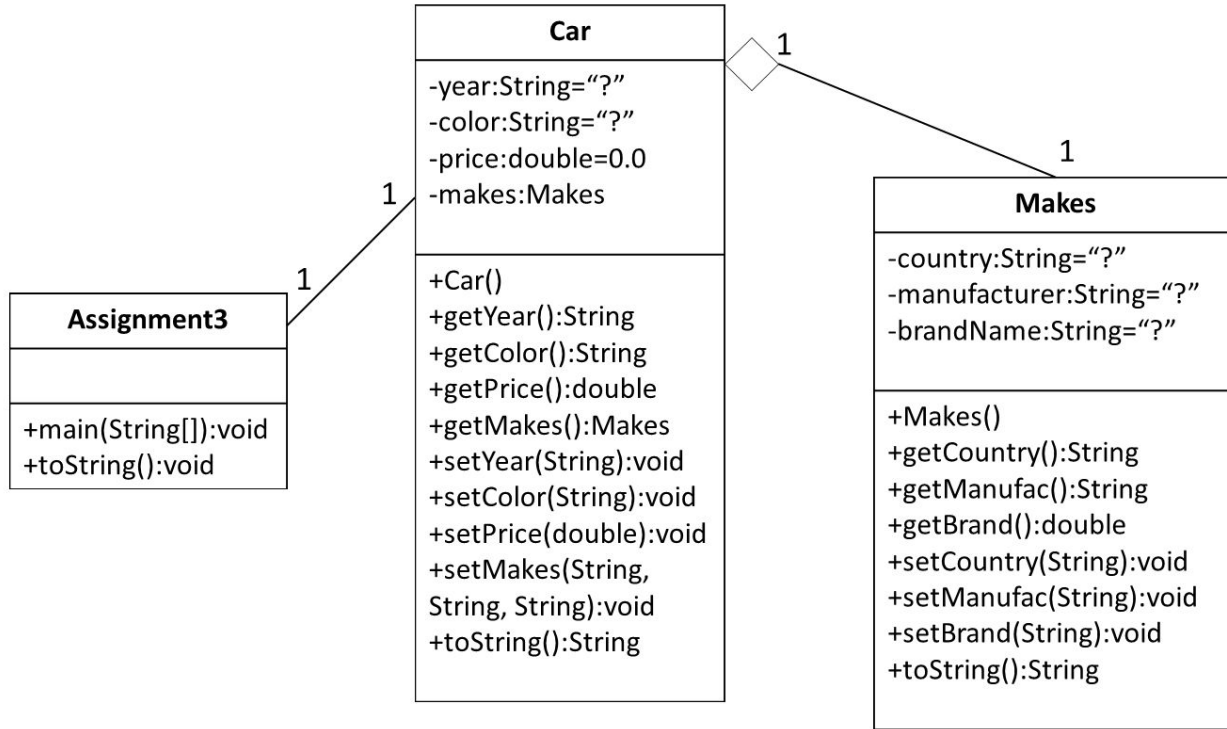
```
C:\Users\binda\Desktop\TEST>java tl
Hello World!
```

解釋作業三

:User

:System





```

1 public class Makes {
2     public String country;
3     public String manufacturer;
4     public String brandName;
5     public Makes() {
6         country = "?";
7         manufacturer = "?";
8         brandName = "?";
9     }
10    public String getCountry() {
11        return this.country;
12    }
13    public String getManufac() {
14        return this.manufacturer;
15    }
16    public String getBrand() {
17        return this.brandName;
18    }
19    public void setCountry(String nCountry) {
20        this.country = nCountry;
21    }
22    public void setManufac(String nManufac) {
23        this.manufacturer = nManufac;
24    }
25    public void setBrand(String nBrand) {
26        this.brandName = nBrand;
27    }
28    public String toString() {
29        return "Country:\t"+getCountry()+
30            "\nManufacturer:\t"+getManufac()+
31            "\nBrand:\t\t"+getBrand()+"\n";
32    }
33 }

```

```

1 public class MakesTest {
2     public static void main(String[] args) {
3         Makes m = new Makes();
4         System.out.println(m.toString());
5         // Country:? Manufacturer:? Brand:?
6         m.setBrand("CR-V");
7         m.setCountry("Japan");
8         m.setManufac("Honda");
9         System.out.println(m.toString());
10        // Country:Japan Manufacturer:Honda Brand:CR-V
11    }
12 }

```

```

1 public class Car {
2     public String year;
3     public String color;
4     public double price;
5     public Makes makes;
6     public Car() {
7         year = "?";
8         color = "?";
9         price = 0.0;
10        makes = new Makes();
11    }
12    public String getYear() {
13        return this.year;
14    }
15    public String getColor() {
16        return this.color;
17    }
18    public double getPrice() {
19        return this.price;
20    }
21    public Makes getMakes() {
22        return this.makes;
23    }
24    public void setYear(String nYear) {
25        this.year = nYear;
26    }
27    public void setColor(String nColor) {
28        this.color = nColor;
29    }
30    public void setPrice(double nPrice) {
31        this.price = nPrice;
32    }
33    public void setMakes(String nCountry, String nManufac, String nBrand) {
34        this.makes.setCountry(nCountry);
35        this.makes.setManufac(nManufac);
36        this.makes.setBrand(nBrand);
37    }
38    public String toString() {
39        return "Country:\t"+getMakes().getCountry()+
40            "\nManufacturer:\t"+getMakes().getManufac()+
41            "\nBrand:\t\t"+getMakes().getBrand()+"\nYear:\t\t"+getYear()+
42            "\nColor:\t\t"+getColor()+"\nPrice:\t\t"+getPrice()+"\n";
43    }
44 }

```

```

1 public class CarTest {
2     public static void main(String[] args) {
3         String brand = "CR-V";
4         String country = "Japan";
5         String manufacturer = "Honda";
6         String color = "Gray";
7         String year = "2017";
8         double price = 103.9;
9
10        Car c = new Car();
11        System.out.println(c.toString());
12        // Country:? Manufacturer:? Brand:? Year:?
13        // Color:? Price:0.0
14        c.setColor(color);
15        c.setPrice(price);
16        c.setYear(year);
17        c.setMakes(country, manufacturer, brand);
18        System.out.println(c.toString());
19        // Country:Japan Manufacturer:Honda Brand:CR-V
20        // Year:2017 Color:Gray Price:103.9
21    }
22 }

```

其他注意事項

1. 切記要下載Assignment3.java
2. 修改變數宣告部分, 必要時須要自行新增或刪除
3. 修改switch action部分, 新增提示字與執行對應函式(新增Car顏色...等)
4. 無須注意Scanner格式不正確(需要Double卻輸入String這種意外處理)
5. 評分標準為丟入測試的input

END

下課 = 練習完畢+來前面簽名