

國立台北科技大學

應用軟體實習報告

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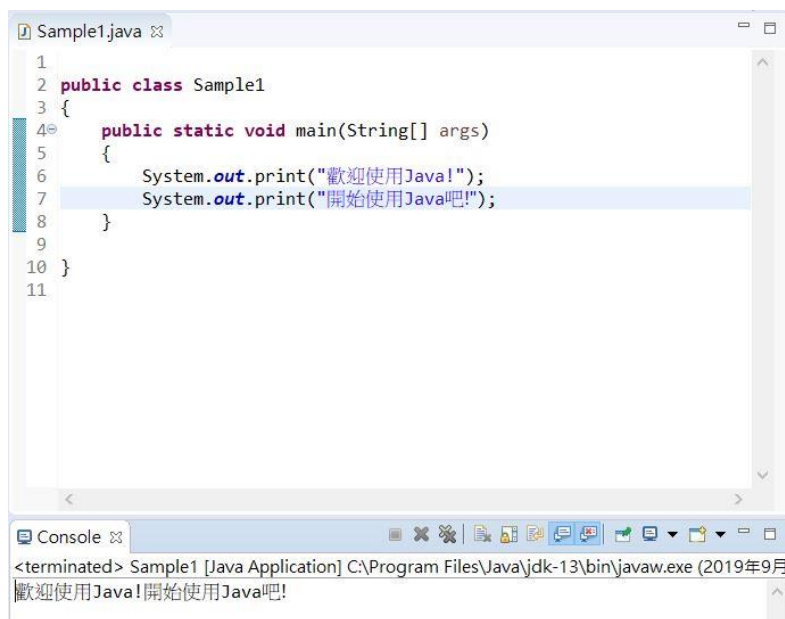
106360117

心得:

這是我第一次寫 Java，但是發現跟 C 和 C++ 蠻像的，所以這次的練習題目幾乎都看得懂，但是不太一樣的是宣告 `int a` 的時候，如果你在後來的程式碼沒有使用到 `a`，宣告的那一様 `int a` 會有黃色底線來提醒你這個沒被用到

```
10 int num1 = 5;
```

剛開始寫程式的時候我還以為我有錯誤，結果才發現只是提醒我而已，就連 `import` 函式庫也會有提醒，我還以為我 Java 沒裝這個函式庫，後來才發現只要程式沒使用到這函式庫的東西就會有黃色線來提醒，這是我目前沒在 C 和 C++ 遇到的狀況。

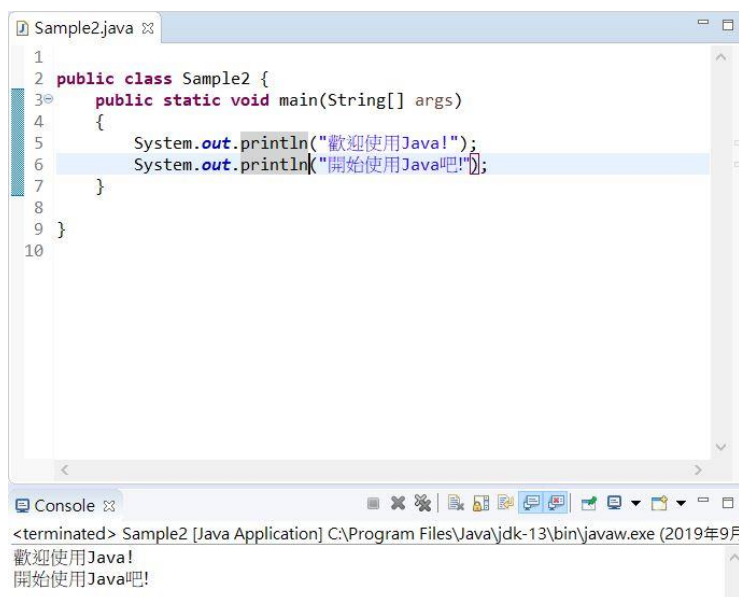


The screenshot shows a code editor window titled 'Sample1.java' with the following code:

```
1
2 public class Sample1
3 {
4     public static void main(String[] args)
5     {
6         System.out.print("歡迎使用Java!");
7         System.out.print("開始使用Java吧!");
8     }
9
10 }
11
```

Below the code editor is a console window showing the output of the program:

```
<terminated> Sample1 [Java Application] C:\Program Files\Java\jdk-13\bin\javaw.exe (2019年9月)
歡迎使用Java!開始使用Java吧!
```



The screenshot shows a code editor window titled 'Sample2.java' with the following code:

```
1
2 public class Sample2 {
3     public static void main(String[] args)
4     {
5         System.out.println("歡迎使用Java!");
6         System.out.println("開始使用Java吧!");
7     }
8
9 }
10
```

Below the code editor is a console window showing the output of the program:

```
<terminated> Sample2 [Java Application] C:\Program Files\Java\jdk-13\bin\javaw.exe (2019年9月)
歡迎使用Java!
開始使用Java吧!
```

```
Sample3.java
1
2 public class Sample3
3 {
4     public static void main(String[] args)
5     {
6         System.out.println("A");
7         System.out.println("歡迎使用Java!");
8         System.out.println(123);
9     }
10 }
11
```

Console

<terminated> Sample3 [Java Application] C:\Program Files\Java\j
A
歡迎使用Java!
123

```
Sample4.java Sample3.java
1
2 public class Sample4
3 {
4     public static void main(String[] args)
5     {
6         System.out.println("顯示出反斜線:\");
7         System.out.println("顯示出單引號'\");
8         System.out.println("八進位數101的字元是\101");
9         System.out.println("十六進位數0061的字元是\u0061");
10    }
11 }
12
```

Console

<terminated> Sample4 [Java Application] C:\Program Files\Java\jdk-13\bin\javaw.e
顯示出反斜線:\
顯示出單引號'
八進位數101的字元是A
十六進位數0061的字元是a

```
Sample7.java
1
2 public class Sample7
3 {
4     public static void main(String[] args)
5     {
6         int num;
7
8         num = 3;
9
10        System.out.println("變數num的值是"+num);
11    }
12 }
13
```

Console

<terminated> Sample7 [Java Application] C:\Program Files\Java\jdk-13\bin
變數num的值是3

```
Sample8.java Sample7.java
1
2 public class Sample8
3 {
4     public static void main(String[] args)
5     {
6         int num = 3;
7
8         System.out.println("變數num的值是"+num);
9
10        num = 5;
11
12        System.out.println("更新變數num的值");
13        System.out.println("變數num更新後的值是"+num);
14    }
15 }
16 }
17
```

Console

<terminated> Sample8 [Java Application] C:\Program Files\Java\jdk-13\bin
變數num的值是3
更新變數num的值
變數num更新後的值是5

```
Sample9.java
1
2 public class Sample9
3 {
4     public static void main(String[] args)
5     {
6         int num1, num2;
7
8         num1 = 3;
9
10        System.out.println("變數num1的值是"+num1);
11
12        num2 = num1;
13
14        System.out.println("將變數num1指定到變數num2之中");
15        System.out.println("變數num2的值是"+num2);
16    }
17 }
18
19
```

Console

<terminated> Sample9 [Java Application] C:\Program Files\Java\jdk-13\bin\javaw.exe

變數num1的值是3
將變數num1指定到變數num2之中
變數num2的值是3

```
Sample10.java
1 import java.io.BufferedReader;
2 import java.io.IOException;
3 import java.io.InputStreamReader;
4 public class Sample10
5 {
6     public static void main(String[] args) throws IOException
7     {
8         System.out.println("請輸入一個整數");
9
10        BufferedReader br1 =
11            new BufferedReader(new InputStreamReader(System.in));
12
13        String str1 = br1.readLine();
14
15        int num = Integer.parseInt(str1);
16
17        System.out.println("您輸入的數字是:"+num);
18
19        System.out.println("請輸入字串");
20
21        BufferedReader br2 =
22            new BufferedReader(new InputStreamReader(System.in));
23
24        String str2 = br2.readLine();
25
26        System.out.println("剛剛輸入的字串是"+str2);
27    }
28 }
29
```

Console

<terminated> Sample10 [Java Application] C:\Program Files\Java\jdk-13\bin\javaw.exe (201

請輸入一個整數
106360117
您輸入的數字是:106360117
請輸入字串
林鈺翔
剛剛輸入的字串是林鈺翔

```
Sample11.java
1
2 public class Sample11 {
3     public static void main(String[] args)
4     {
5         System.out.println("1+2等於" + (1+2));
6         System.out.println("3*4等於" + (3*4));
7
8         int num1 = 2;
9         int num2 = 3;
10        int sum = num1 + num2;
11
12
13        System.out.println("變數num1的值是" + num1);
14        System.out.println("變數num2的值是" + num2);
15        System.out.println("num1+num2值是" + sum);
16
17        num1 = num1 + 1;
18
19        System.out.println("變數num1的值+1之後是" + num1);
20
21    }
22 }
23
```

Console

<terminated> Sample11 [Java Application] C:\Program Files\Java\jdk-13\bin\javaw.exe (2019)

1+2等於3
3*4等於12
變數num1的值是2
變數num2的值是3
num1+num2值是5
變數num1的值+1之後是3

```
Sample12.java
1
2 public class Sample12
3 {
4     public static void main(String[] args)
5     {
6         int num1 = 10;
7         int num2 = 5;
8
9         System.out.println("num1和num2的各種運算");
10        System.out.println("num1+num2等於" + (num1+num2));
11        System.out.println("num1-num2等於" + (num1-num2));
12        System.out.println("num1*num2等於" + (num1*num2));
13        System.out.println("num1/num2等於" + (num1/num2));
14        System.out.println("num1%num2等於" + (num1%num2));
15
16        int a = 0;
17        int b = 0;
18        int c = 0;
19
20        b = a++;
21        c = ++a;
22
23        System.out.println("因為是在指定值之後才遞增,所以b的值为" + b);
24        System.out.println("因為是在遞增之後才指定,所以c的值为" + c);
25
26    }
27 }
28
```

Console

<terminated> Sample12 [Java Application] C:\Program Files\Java\jdk-13\bin\javaw.exe (2019)

num1和num2的各種運算
num1+num2等於15
num1-num2等於5
num1*num2等於50
num1/num2等於2
num1%num2等於0
因為是在指定值之後才遞增,所以b的值为0
因為是在遞增之後才指定,所以c的值为2

```
Sample13.java
1
2 public class Sample13
3 {
4     public static void main(String[] args)
5     {
6         double dnum = 160.5;
7         System.out.println("身高是"+dnum+"公分");
8
9         System.out.println("指定給int型態的變數");
10
11         int inum = (int)dnum;
12         System.out.println("身高是"+inum+"公分");
13     }
14 }
15
16
17
```

Console

<terminated> Sample13 [Java Application] C:\Program Files\Java\jdk-13\bin\java.exe

身高是160.5公分
指定給int型態的變數
身高是160公分

```
Sample14.java
1
2 public class Sample14 {
3     public static void main(String[] args)
4     {
5         int d = 2;
6         double pi = 3.14;
7         System.out.println("直徑是"+d+"公分的圓");
8         System.out.println("其圓周為"+(d*pi)+"公分");
9
10        int num1 = 5;
11        int num2 = 4;
12
13        double div1 = num1/num2;
14        double div2 = (double)num1/(double)num2;
15        System.out.println("5/4= "+div1);
16        System.out.println("5/4= "+div2);
17    }
18 }
19
```

Console

<terminated> Sample14 [Java Application] C:\Program Files\Java\jdk-13\bin\java.exe

直徑是2公分的圓
其圓周為6.28公分
5/4= 1.0
5/4= 1.25