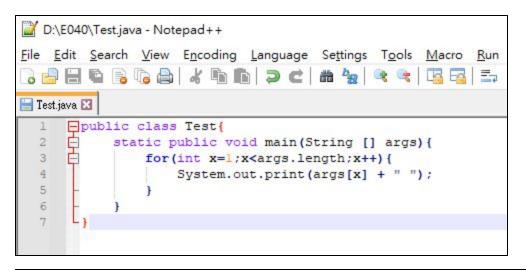
程式設計 2021 03 04

參考資

料:https://github.com/MyDearGreatTeacher/2021_1_courses/blob/main/%E7%A8%8B%E5%BC%8F%E8%A8%AD%E8%A8%882/%E4%B8%8A%E8%AA%B2%E5%85%A7%E5%AE%B9/20210304.md



在命令列執行「java Test a b c」和「java Test 1 2 3 4」兩個指令,結果為何?
② 沒有輸出、輸出1 2 3
② 輸出b c、輸出2 3 4
② 沒有輸出、輸出1 2 3 4
② 執行時抛出一個錯誤、輸出1 2 3
② 執行時抛出一個錯誤、輸出2 3 4
② 執行時抛出一個錯誤、輸出2 3 4

```
C:\Users\PC>D:

D:\>cd E040

D:\E040>javac Test.java

D:\E040>java Test a b c
b c

D:\E040>java Test 1 2 3 4

2 3 4

D:\E040>java Test 1 2 3 4 5 6 7 8 9

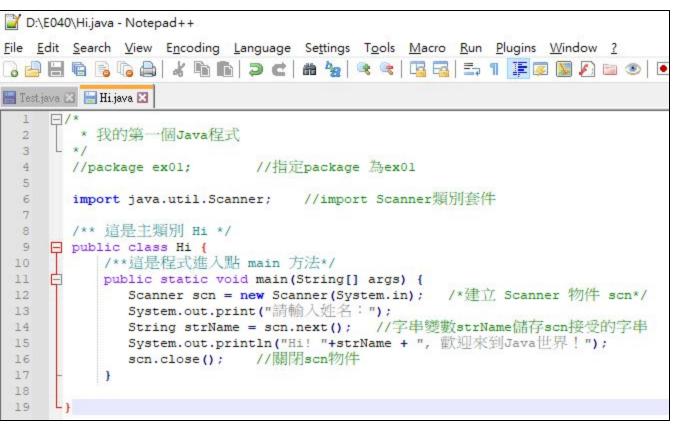
2 3 4 5 6 7 8 9

D:\E040>java Test 1 1 1 a a a
```

D:\E040>java Test 5 1 1 1 a a a

1 a a a

1 1 a a a



```
C:\Users\PC>D:
```

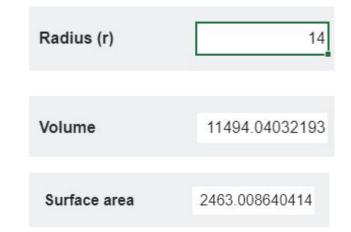
D:\>cd E040

D:\E040>javac Hi.java

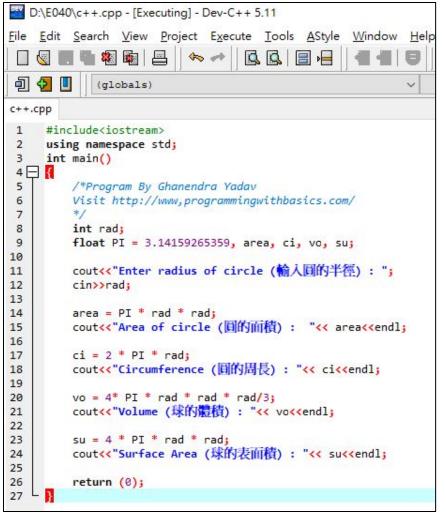
D:\E040>java Hi.java 請輸入姓名:達叔 Hi! 達叔,歡迎來到Java世界!

C Program To Find Area And Circumference Of Circle

```
D:\E040\c.c - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
               (globals)
C.C
     #include<stdio.h>
     #include<math.h>
     int main()
4 🖃
        /*Program By Ghanendra Yadav
 5
        Visit http://www.programmingwithbasics.com/
 8
        int rad;
        float PI = 3.14159265359, area, ci, vo, su;
10
        printf("\nEnter radius of circle (輸入圓的半徑):");
11
12
        scanf("%d", &rad);
13
14
        area = PI * rad * rad:
        printf("\nArea of circle (国的面積): %f ", area);
15
16
17
        ci = 2 * PI * rad:
        printf("\nCircumference (圓的周長): %f ", ci);
19
        vo = 4* PI * rad * rad * rad/3;
        printf("\nVolume (球的體積): %f ", vo);
21
22
        su = 4 * PI * rad * rad;
23
        printf("\nSurface Area (球的表面積): %f ", su);
24
26
        return (0);
27 L
```



```
D:\E040\c.c - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Hel
                         旬 4 
           (globals)
[*] c.c
     #include<stdio.h>
 1
 2
     #include<math.h>
     int main()
 3
 4 🖃
 5
        /*Program By Ghanendra Yadav
 6
        Visit http://www,programmingwithbasics.com/
         */
 7
 8
        int rad;
        float PI = 3.14159265359, area, ci, vo, su;
 9
10
         printf("\nEnter radius of circle (輸入圓的半徑): ");
11
         scanf("%d", &rad);
12
13
14
        area = PI * pow (rad, 2);
15
         printf("\nArea of circle (回的面積): %f ", area);
16
        ci = 2 * PI * rad;
17
         printf("\nCircumference (圓的周長): %f ", ci);
18
19
20
        vo = 4* PI * pow (rad, 3)/3;
         printf("\nVolume (球的體積): %f ", vo);
21
22
23
         su = 4 * PI * pow (rad, 2);
         printf("\nSurface Area (球的表面積): %f ", su);
24
25
26
         return (0);
27
```



```
D:\E040\c++.exe
Enter radius of circle (輸入圓的半徑): 22
Area of circle (圓的面積): 1520.53
Circumference (圓的周長): 138.23
Volume (球的體積): 44602.2
Surface Area (球的表面積): 6082.12
Process exited after 2.508 seconds with return value 0
請按任意鍵繼續....
  Radius (r)
  Volume
                    44602 23810057
 Surface area
                   6082 123377350
```

```
D:\E040\c++.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
            a b a
           (globals)
c++.cpp
     #include<iostream>
     #include<math.h>
2
     using namespace std;
     int main()
4
5 □ {
        /*Program By Ghanendra Yadav
 6
        Visit http://www,programmingwithbasics.com/
 7
         */
 8
        int rad;
 9
10
        float PI = 3.14159265359, area, ci, vo, su;
11
12
        cout<<"Enter radius of circle (輸入国的半徑): ";
13
        cin>>rad;
14
         area = PI * pow (rad, 2);
15
        cout<<"Area of circle (国的面積): "<< area<<endl;
16
17
        ci = 2 * PI * rad;
18
19
         cout<<"Circumference (国的周長): "<< ci<<endl;
20
21
        vo = 4* PI * pow (rad, 3)/3;
22
         cout<<"Volume (球的體積): "<< vo<<endl;
23
24
         su = 4 * PI * pow(rad, 2);
        cout<<"Surface Area (球的表面積): "<< su<<endl;
25
26
27
         return (0);
28
```

```
*D:\E040\java.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
🔚 java. java 🔣
     □/* Program By Ghanendra Yadav
         Visit http://www.programmingwithbasics.com/
      import java.util.Scanner;
      class circle
     ⊟(
          static Scanner sc = new Scanner(System.in);
          public static void main(String args[])
  9
             System.out.print("Enter The Radius of Circle (輸入圓的半徑): ");
             double radius = sc.nextDouble();
 12
 13
          double area = Math.PI * radius *radius:
             System.out.println("Circle Area is (圓的面積): "+ area);
 14
 15
 16
          double circumference = 2 * Math.PI *radius;
              System.out.println( "Circle circumference is (圓的周長) : "+ circumference);
 17
 18
 19
          double volume = 4 * Math.PI * radius * radius *radius/3;
              System.out.println("Circle volume is (球的體積): "+ volume);
 21
          double SurfaceArea = 4 * Math.PI * radius *radius:
             System.out.println("Circle Surface Area is (球的表面積): "+ SurfaceArea);
 23
 24
 25
```

D:\E040>java java.java Enter The Radius of Circle : 18 Circle Area is : 1017.8760197630929 Circle circumference is : 113.09733552923255 Circle volume is : 24429.02447431423 Circle Surface Area is : 4071.5040790523717

 Radius (r)
 18

 Volume
 24429.02447431

 Surface area
 4071.504079052

```
D:\E040\java.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
] 📲 🗎 🖺 🥫 🤚 🔏 🖍 🐚 🖍 🕽 C l 📾 🗽 🔍 🔍 🖫 🖫 🚍 🚍 🦈 🛊
📙 java. java 🔣
     -/* Program By Ghanendra Yadav
          Visit http://www.programmingwithbasics.com/
      -*/
  3
       import java.util.Scanner;
       class circle
      - {
           static Scanner sc = new Scanner(System.in);
  8
           public static void main (String args[])
  9
               System.out.print("Enter The Radius of Circle (輸入圓的半徑): ");
 11
               double radius = sc.nextDouble();
 12
 13
           double area = Math.PI * Math.pow (radius,2);
               System.out.println("Circle Area is (圓的面積): "+ area);
 14
 15
           double circumference = 2 * Math.PI *radius:
 16
 17
               System.out.println( "Circle circumference is (圓的問長) : "+ circumference);
 18
 19
           double volume = 4 * Math.PI * Math.pow (radius, 3) /3;
 20
               System.out.println("Circle volume is (球的體積): "+ volume);
 21
 22
           double SurfaceArea = 4 * Math.PI * Math.pow (radius,2);
 23
               System.out.println("Circle Surface Area is (球的表面積): "+ SurfaceArea);
 24
 25
```

```
//package ex02;
public class Ex02_03 {
    public static void main(String[] args) {
        final double basicRate = 1.2;
        basicRate = 1.6;
        System.out.println("一年期定存利率為 " + (basicRate + 0.1));
        System.out.println("兩年期定存利率為 " + (basicRate + 0.2));
    }
}
```

```
D:\E040\Ex02_03.java - Notepad++
<u>File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?</u>
Ex02_03.java 🔀
       //package ex02;
     Epublic class Ex02 03 {
          public static void main(String[] args) {
           double basicRate = 1.2;
           System.out.println("基準匯率為" + basicRate +"時");
           System.out.println("一年期定存利率為 " + (basicRate + 0.1));
           System.out.println("兩年期定存利率為 " + (basicRate + 0.2)+"\n");
  8
  9
           basicRate = 1.6;
 10
           System.out.println("基準匯率為" + basicRate + "時");
           System.out.println("一年期定存利率為 " + (basicRate + 0.1));
 12
           System.out.println("兩年期定存利率為 " + (basicRate + 0.2));
 13
 14
 15
 \E040>java Ex02_03.java
```

```
D:\E040\Java SE12基礎必修課_範例檔與電子書\範例\ex02\src\ex02\Ex02_04.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Winc

Ex02_04.java 

package ex02;
import java.util.Scanner;
public class Ex02_04 {

public static void main(String[] args) {
 Scanner scn = new Scanner(System.in);
 System.out.print("詩輸人資料:");
 var inputData = scn.next();
 System.out.println("您輸入的資料是 "+ inputData);
 scn.close();

}
```

```
D:\E040>java Ex02_04.java
請輸入資料:E040
您輸入的資料是 E040
```

util是utiliy的縮寫,意為多用途的,工具性質的包。

這個包中主要存放了:集合類(如ArrayList, HashMap等), 隨機數產生類, 屬性檔案讀取類, 定時器類等類。