Communciation System Lab's Report

Homework CH1

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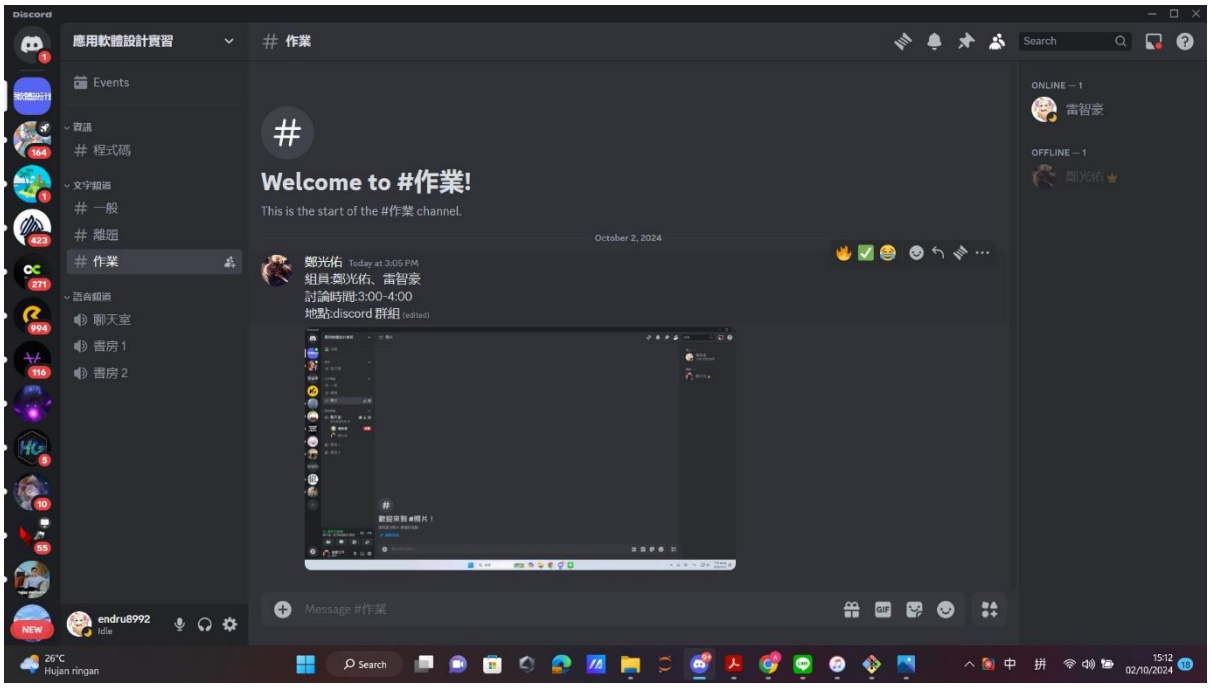
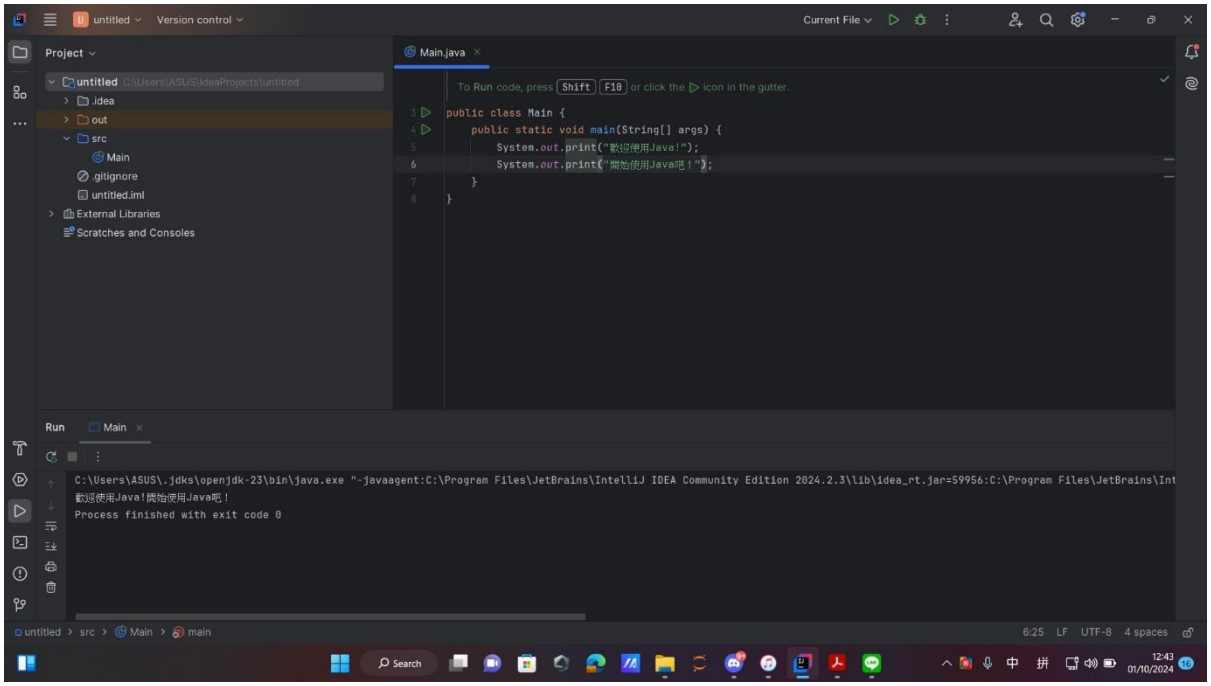
Class: 電子三甲

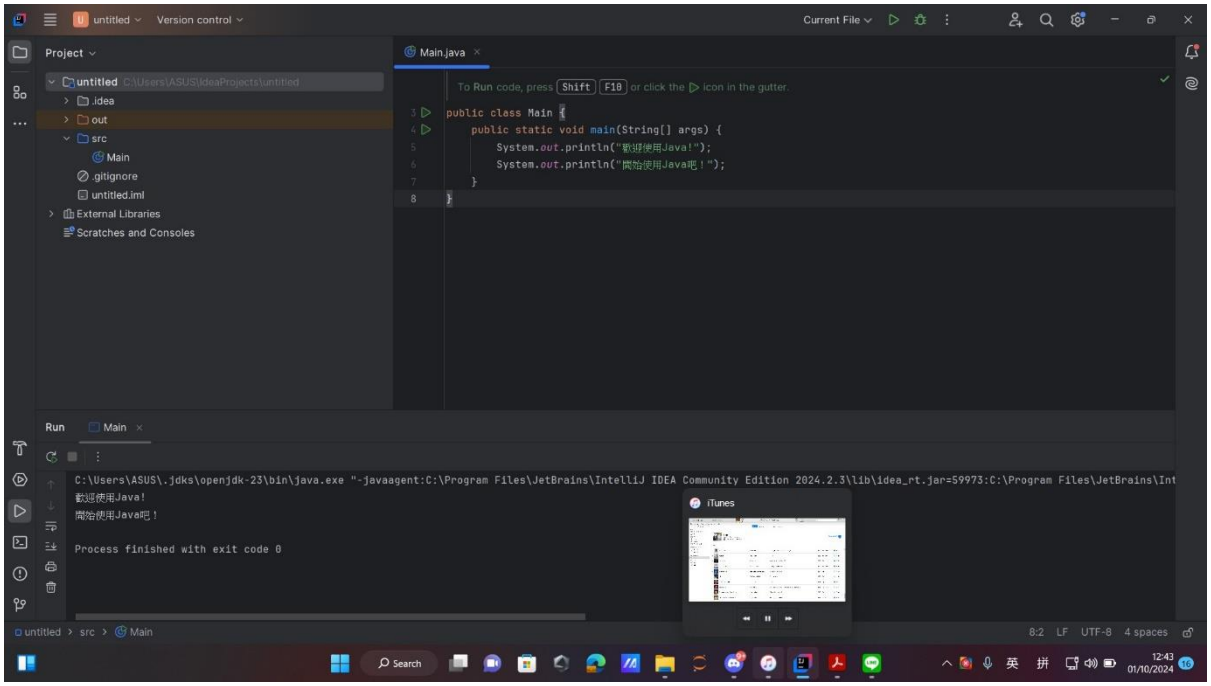
Student ID: 111360155

Group : 雷智豪 111360155

鄭光佑 109360105




untitled
Version control
Current File
Project
Main.java
To Run code, press Shift F10 or click the icon in the gutter.
public class Main {
public static void main(String[] args) {
System.out.print("歡迎使用Java!");
System.out.print("開始使用Java吧！");
}
}
Run
Main
C:\Users\ASUS\.jdks\openjdk-23\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.3\lib\idea_rt.jar=59956:C:\Program Files\JetBrains\Int
歡迎使用Java!開始使用Java吧！
Process finished with exit code 0
6:25 LF UTF-8 4 spaces
Search
12:43
01/10/2024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Version control
Current File
Project
Main.java
To Run code, press Shift F10 or click the icon in the gutter.
public class Main {
public static void main(String[] args) {
System.out.println("歡迎使用Java!");
System.out.println("開始使用Java吧！");
}
}
Run
Main
C:\Users\ASUS\.jdks\openjdk-23\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.3\lib\idea_rt.jar=59973:C:\Program Files\JetBrains\Int
歡迎使用Java!
開始使用Java吧！
Process finished with exit code 0
iTunes
8:2 LF UTF-8 4 spaces
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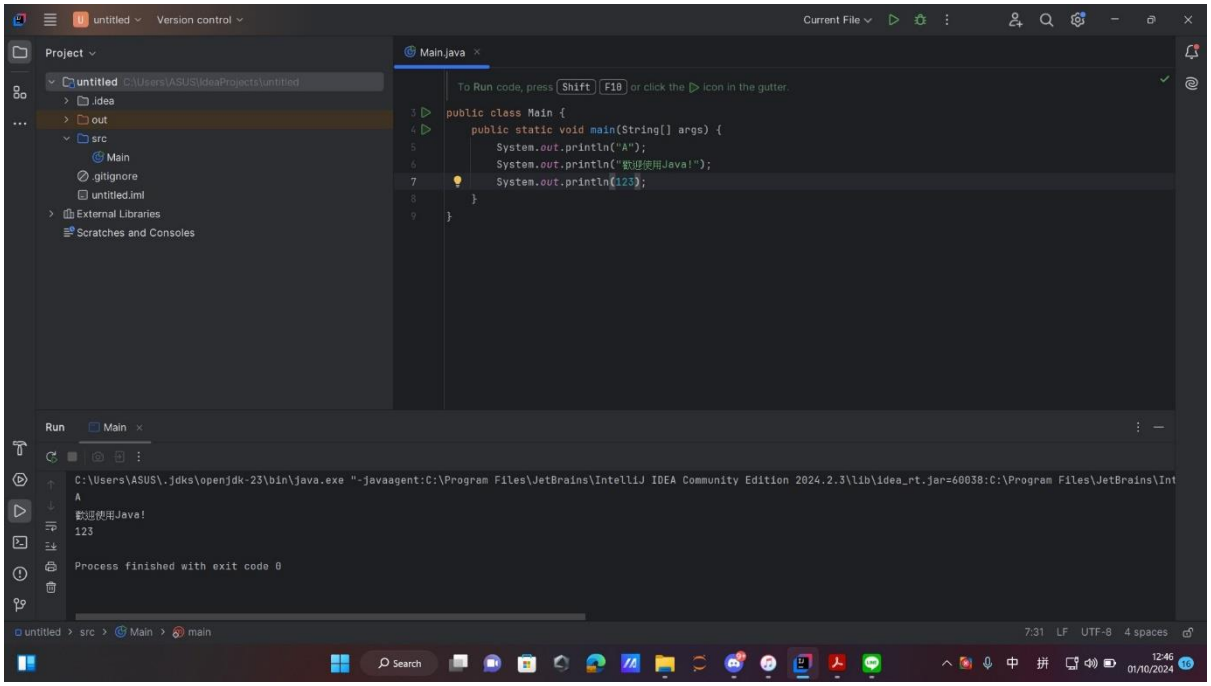
12:43
01/10/2024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Version control
Current File
Project
Main.java
To Run code, press Shift F10 or click the icon in the gutter.
public class Main {
public static void main(String[] args) {
System.out.println("A");
System.out.println("歡迎使用Java!");
System.out.println(123);
}
}
untitled C:\Users\ASUS\IdeaProjects\untitled
.idea
out
src
Main
.gitignore
untitled.iml
External Libraries
Scratches and Consoles
Run
Main
C:\Users\ASUS\.jdks\openjdk-23\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.3\lib\idea_rt.jar=60038:C:\Program Files\JetBrains\Int
A
歡迎使用Java!
123
Process finished with exit code 0
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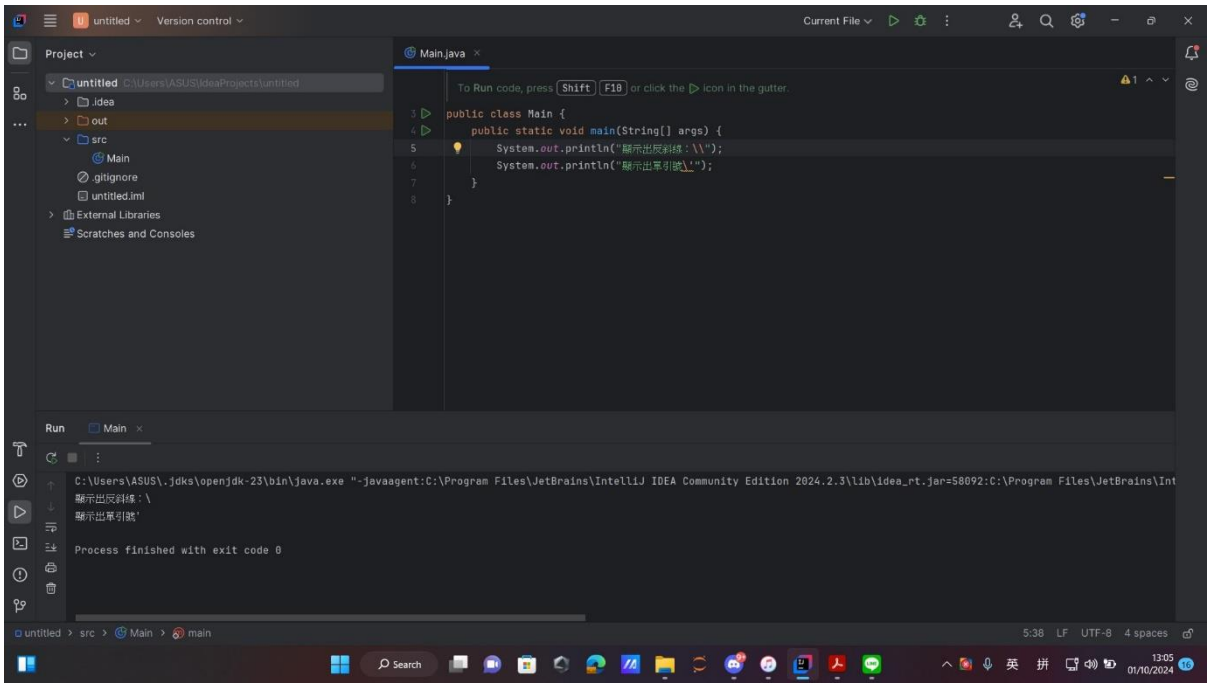
7:31 LF UTF-8 4 spaces
Search
12:46
01/10/2024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Version control
Current File
Project
Main.java
To Run code, press Shift F10 or click the icon in the gutter.
public class Main {
public static void main(String[] args) {
System.out.println("顯示出反斜線：\\");
System.out.println("顯示出單引號\'");
}
}
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External Libraries
Scratches and Consoles
Run
Main
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顯示出反斜線：\
顯示出單引號'
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5:38 LF UTF-8 4 spaces
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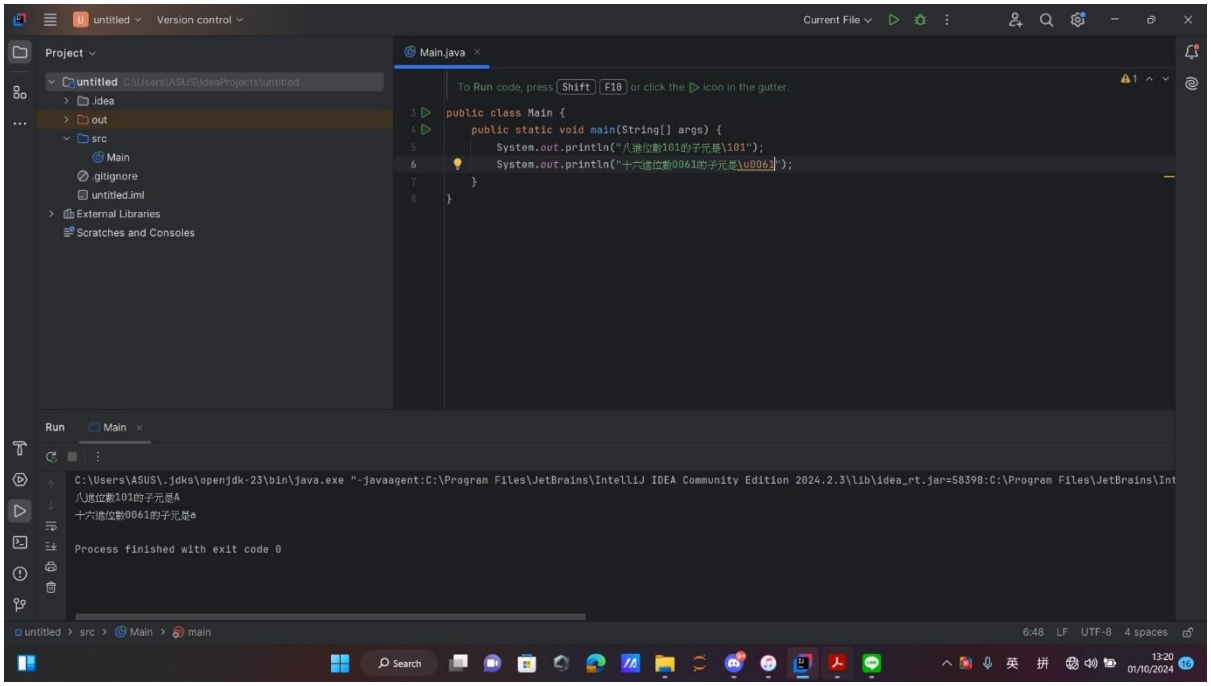
13:05
01/10/2024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Version control
Current File
Project
Main.java
To Run code, press Shift F10 or click the icon in the gutter.
public class Main {
public static void main(String[] args) {
System.out.println("八進位數101的子元是\101");
System.out.println("十六進位數0061的子元是\u0061");
}
}
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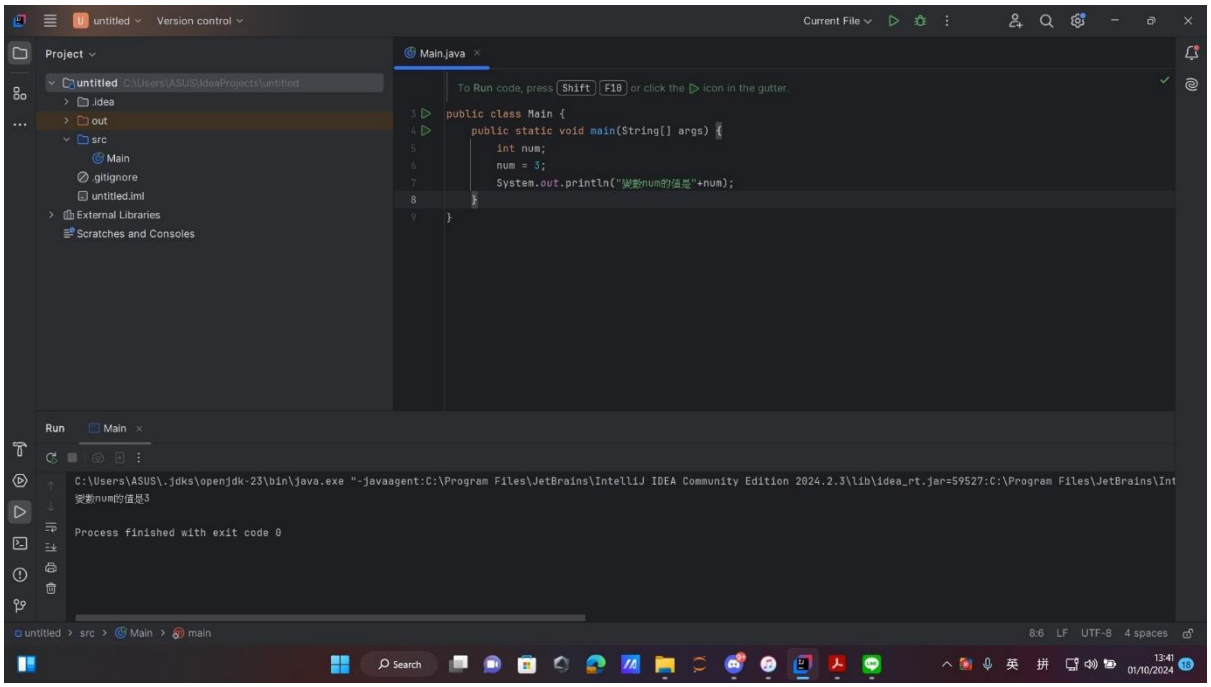
External Libraries
Scratches and Consoles
Run
Main
C:\Users\ASUS\.jdks\openjdk-23\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.3\lib\idea_rt.jar=58398:C:\Program Files\JetBrains\Int
八進位數101的子元是A
十六進位數0061的子元是a
Process finished with exit code 0
untitled > src > Main > main
6:48 LF UTF-8 4 spaces
Search
英 拼
13:20
01/10/2024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Version control
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Project
Main.java
To Run code, press Shift F10 or click the icon in the gutter.
public class Main {
public static void main(String[] args) {
int num;
num = 3;
System.out.println("變數num的值是"+num);
}
}
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src
Main
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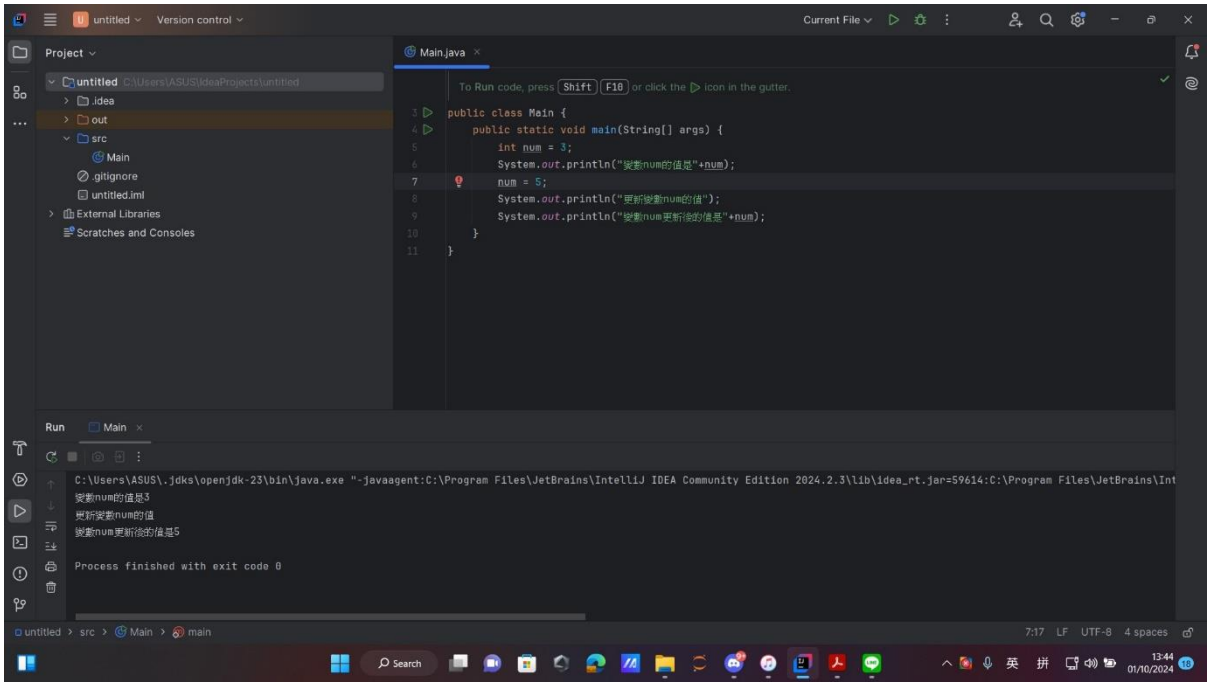
External Libraries
Scratches and Consoles
Run
Main
C:\Users\ASUS\.jdks\openjdk-23\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.3\lib\idea_rt.jar=59527:C:\Program Files\JetBrains\Int
變數num的值是3
Process finished with exit code 0
untitled > src > Main > main
8:6 LF UTF-8 4 spaces
Search
英 拼
13:41
01/10/2024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Version control
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Project
Main.java
To Run code, press Shift F10 or click the icon in the gutter.
public class Main {
public static void main(String[] args) {
int num = 3;
System.out.println("變數num的值是"+num);
num = 5;
System.out.println("更新變數num的值");
System.out.println("變數num更新後的值是"+num);
}
}
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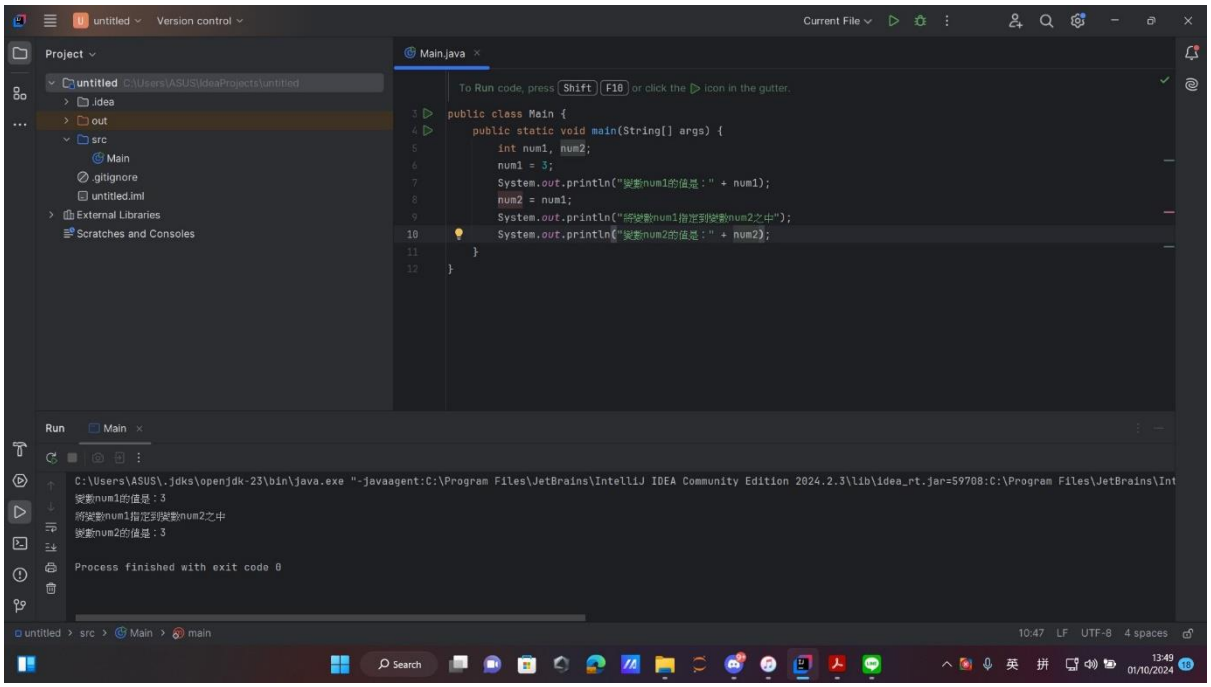
External Libraries
Scratches and Consoles
Run
Main
C:\Users\ASUS\.jdks\openjdk-23\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.3\lib\idea_rt.jar=59614:C:\Program Files\JetBrains\Int
變數num的值是3
更新變數num的值
變數num更新後的值是5
Process finished with exit code 0
untitled › src › Main › main
7:17 LF UTF-8 4 spaces
Search
英 拼
13:44
01/10/2024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Version control
Current File
Project
Main.java
To Run code, press Shift F10 or click the icon in the gutter.
public class Main {
public static void main(String[] args) {
int num1, num2;
num1 = 3;
System.out.println("變數num1的值是：" + num1);
num2 = num1;
System.out.println("將變數num1指定到變數num2之中");
System.out.println("變數num2的值是：" + num2);
}
}
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External Libraries
Scratches and Consoles
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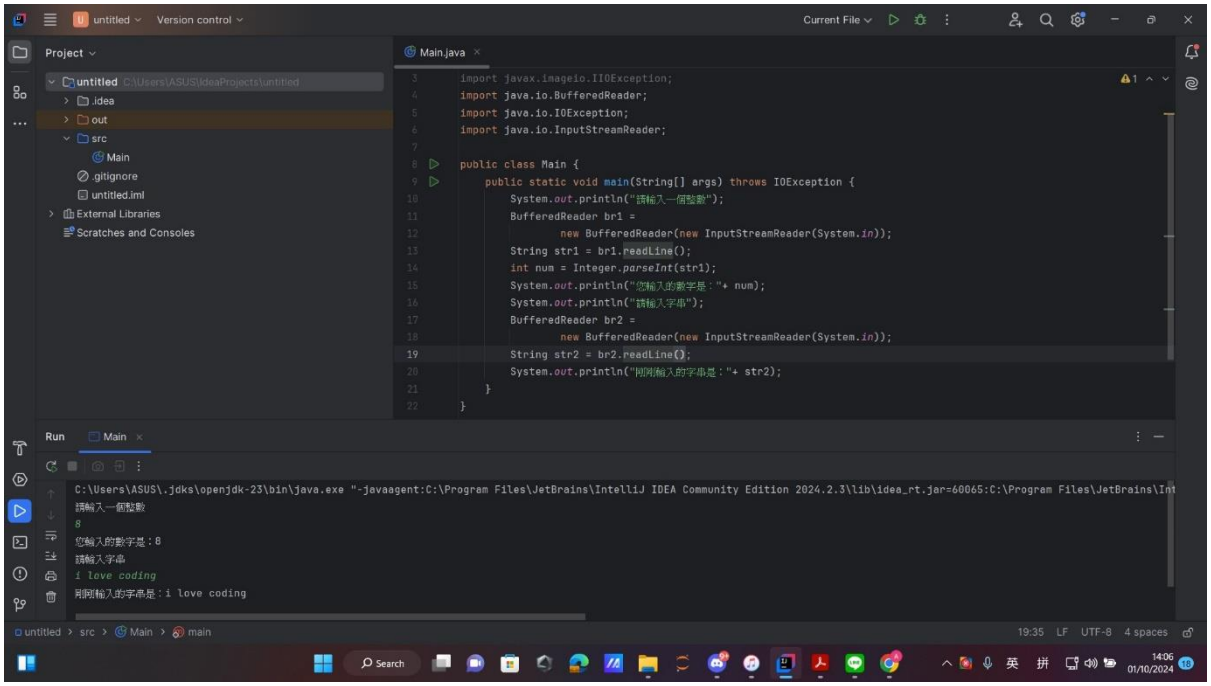
變數num1的值是：3
將變數num1指定到變數num2之中
變數num2的值是：3
Process finished with exit code 0
untitled › src › Main › main
10:47 LF UTF-8 4 spaces
Search
英 拼
13:49
01/10/2024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External Libraries
Scratches and Consoles
import javax.imageio.IIOException;
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
public class Main {
public static void main(String[] args) throws IOException {
System.out.println("請輸入一個整數");
BufferedReader br1 =
new BufferedReader(new InputStreamReader(System.in));
String str1 = br1.readLine();
int num = Integer.parseInt(str1);
System.out.println("您輸入的數字是："+ num);
System.out.println("請輸入字串");
BufferedReader br2 =
new BufferedReader(new InputStreamReader(System.in));
String str2 = br2.readLine();
System.out.println("剛剛輸入的字串是："+ str2);
}
}
Run
Main
C:\Users\ASUS\.jdks\openjdk-23\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.3\lib\idea_rt.jar=60065:C:\Program Files\JetBrains\Int
請輸入一個整數
8
您輸入的數字是：8
請輸入字串
i love coding
剛剛輸入的字串是：i love coding
untitled > src > Main > main
19:35 LF UTF-8 4 spaces
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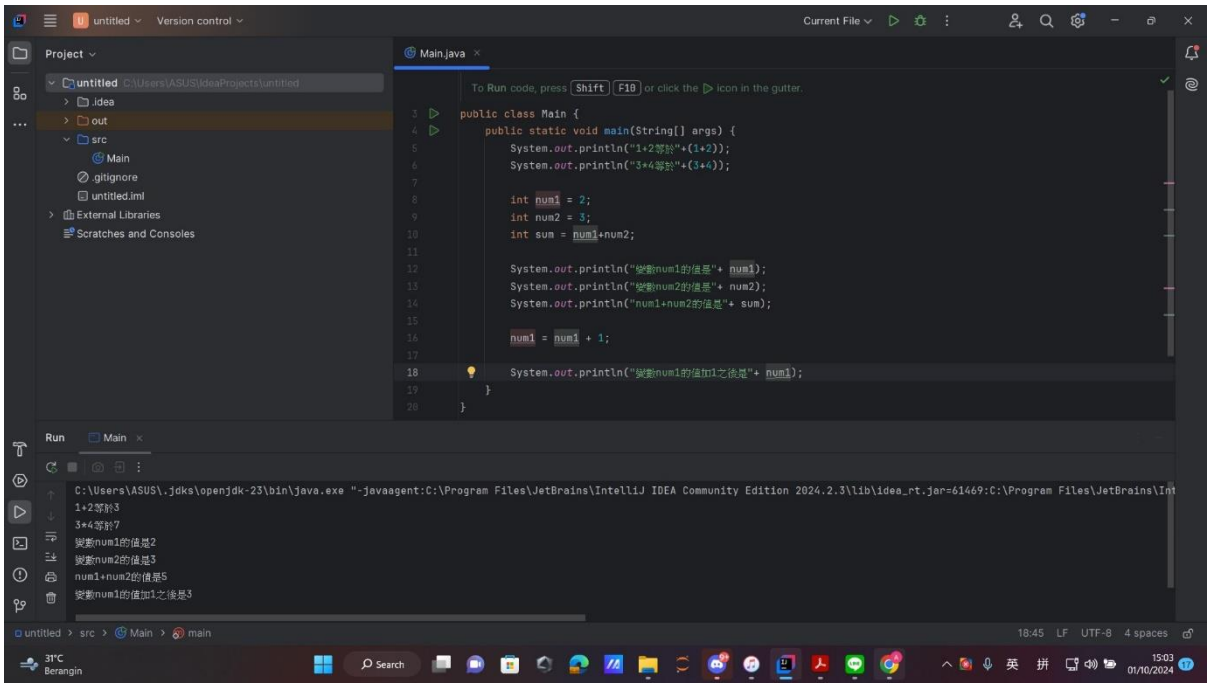
英 拼
14:06
01/10/2024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External Libraries
Scratches and Consoles
To Run code, press Shift F10 or click the ▷ icon in the gutter.
public class Main {
public static void main(String[] args) {
System.out.println("1+2等於"+(1+2));
System.out.println("3*4等於"+(3*4));
int num1 = 2;
int num2 = 3;
int sum = num1+num2;
System.out.println("變數num1的值是"+ num1);
System.out.println("變數num2的值是"+ num2);
System.out.println("num1+num2的值是"+ sum);
num1 = num1 + 1;
System.out.println("變數num1的值加1之後是"+ num1);
}
}
Run
Main
C:\Users\ASUS\.jdks\openjdk-23\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.3\lib\idea_rt.jar=61469:C:\Program Files\JetBrains\Int
1+2等於3
3*4等於7
變數num1的值是2
變數num2的值是3
num1+num2的值是5
變數num1的值加1之後是3
untitled > src > Main > main
18:45 LF UTF-8 4 spaces
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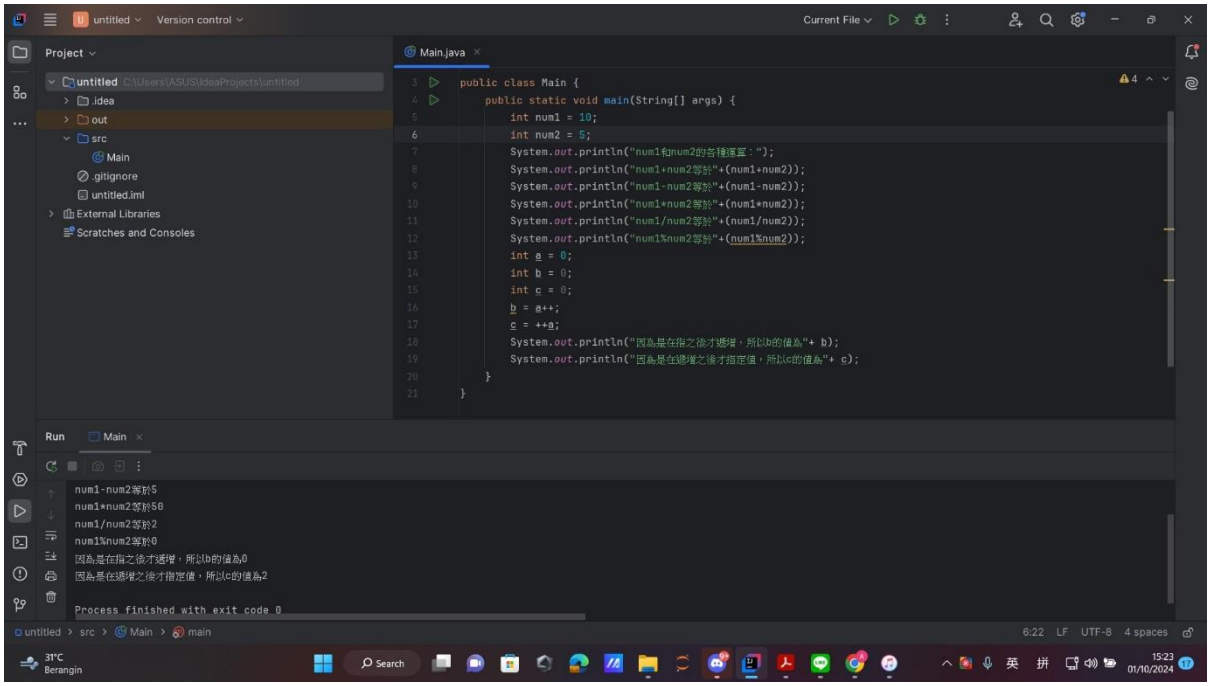
01/10/2024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Version control
Current File
Project
Main.java
public class Main {
public static void main(String[] args) {
int num1 = 10;
int num2 = 5;
System.out.println("num1和num2的各種運算：");
System.out.println("num1+num2等於"+(num1+num2));
System.out.println("num1-num2等於"+(num1-num2));
System.out.println("num1*num2等於"+(num1*num2));
System.out.println("num1/num2等於"+(num1/num2));
System.out.println("num1%num2等於"+(num1%num2));
int a = 0;
int b = 0;
int c = 0;
b = a++;
c = ++a;
System.out.println("因為是在指之後才遞增，所以b的值為"+ b);
System.out.println("因為是在遞增之後才指定值，所以c的值為"+ c);
}
}
Run
Main
num1-num2等於5
num1*num2等於50
num1/num2等於2
num1%num2等於0
因為是在指之後才遞增，所以b的值為0
因為是在遞增之後才指定值，所以c的值為2
Process finished with exit code 0
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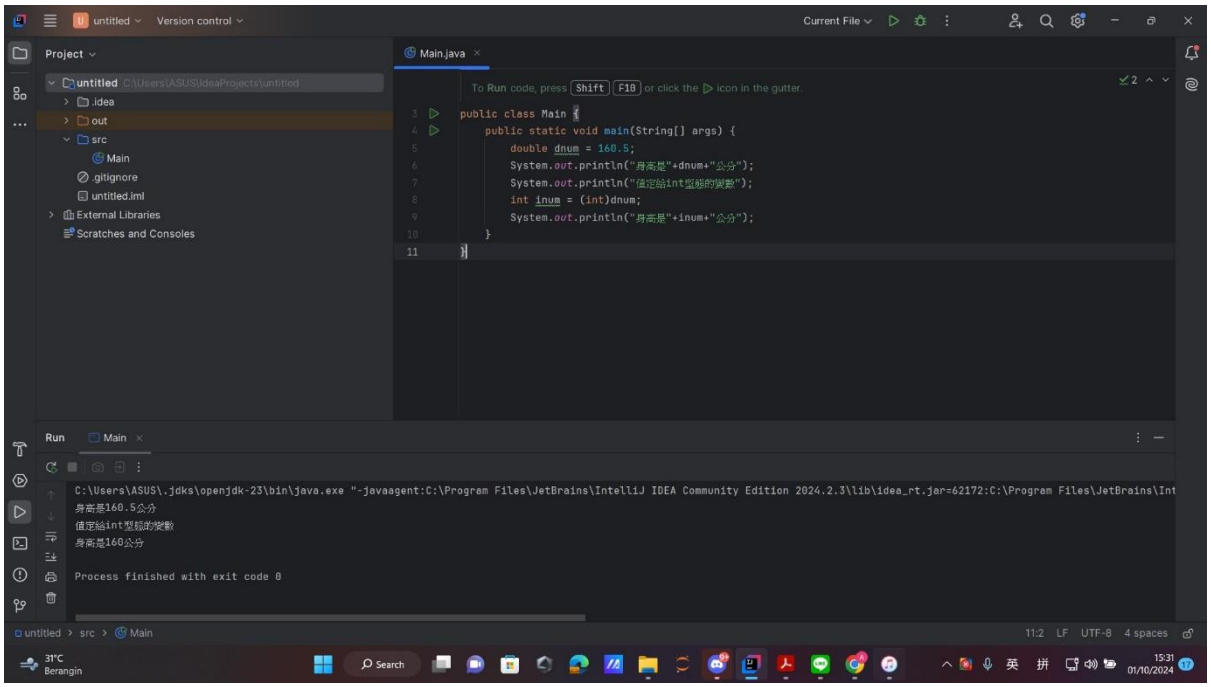
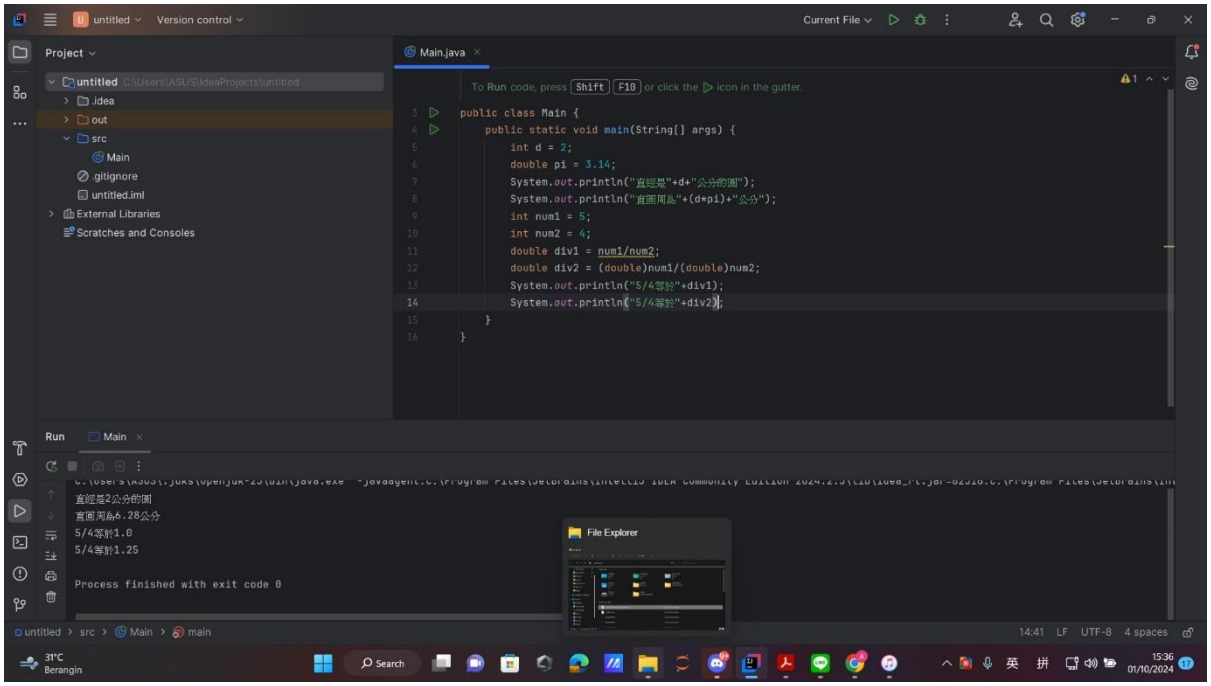

untitled
Version control
Current File
Project
Main.java
To Run code, press Shift F10 or click the ▷ icon in the gutter.
public class Main {
public static void main(String[] args) {
double dnum = 160.5;
System.out.println("身高是"+dnum+"公分");
System.out.println("值定給int型態的變數");
int inum = (int)dnum;
System.out.println("身高是"+inum+"公分");
}
}
Run
Main
C:\Users\ASUS\.jdks\openjdk-23\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.3\lib\idea_rt.jar=62172:C:\Program Files\JetBrains\Int
身高是160.5公分
值定給int型態的變數
身高是160公分
Process finished with exit code 0
untitled › src › Main
11:2 LF UTF-8 4 spaces
31°C
Berangin
Search
英 拼
15:31
01/10/2024



In conclusion, this first assignment introduced us to the basics of coding in Java. We learned how to use commands like print and println, work with escape characters like \, and handle data types such as integers and doubles.

We also covered how to take user input and perform basic math operations like addition (+), subtraction (-), multiplication (*), division (/), and modulus (%). These are essential skills for solving problems in programming.

This chapter focused on simple concepts that are the foundation of Java programming, preparing us for more advanced coding tasks in the future.