

**计算机与信息科学学院 软件学院**

**实**

**验**

**报**

**告**

**学 院：** 计算机与信息科学学院

**专 业：** 自动化

**课程名称：** 计算机控制系统

**实 验：** Lab 2 Python language   
 basic experiment

**学 号：** 222021321132005

**姓 名：** 贾博方

**学年学期：** 2023-2024-1

**指导老师：** 张渝

**完成日期：** 2023-09-13

**1. The purpose and requirements of the experiment**

Understand the basic syntax and coding specifications of the Python language;

Basic knowledge of data types, operators, constants, variables, expressions and common statements in Python language;

Master Python common statements.

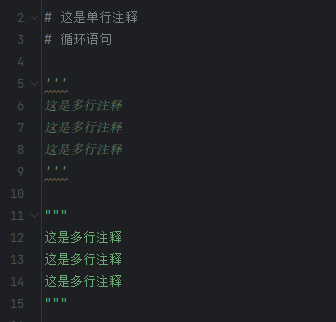
**2. Experiment content and results**

Practice using constants and variables;

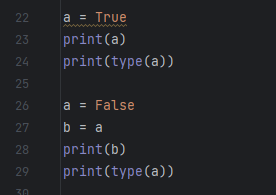
Practice using operators and expressions;

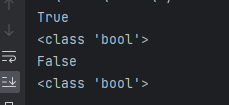
Practice using common sentences.

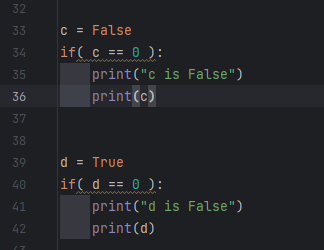
annotation



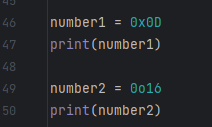
Data type



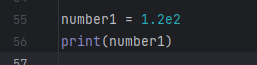








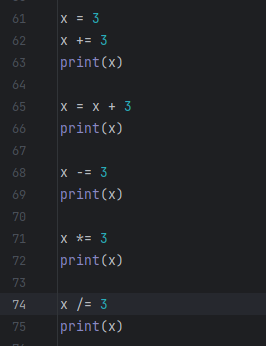


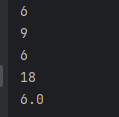




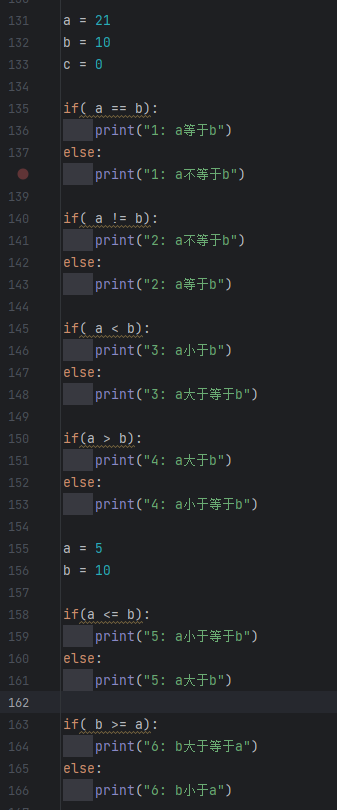
Use operator

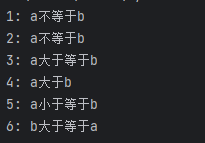
Assignment operator



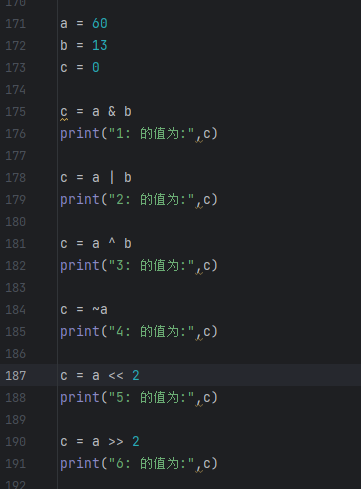


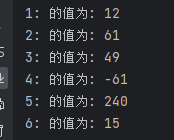
Comparison operator



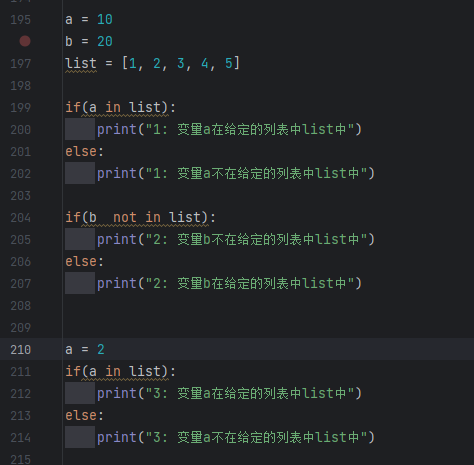


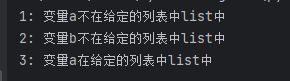
Bit operator



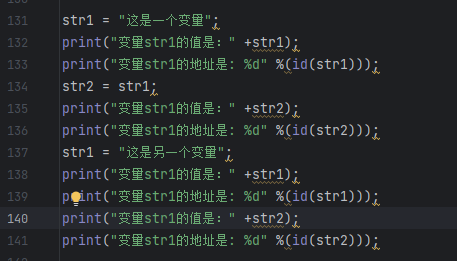


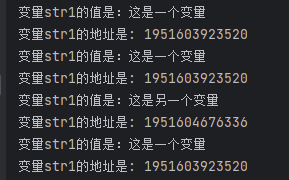
Member operator



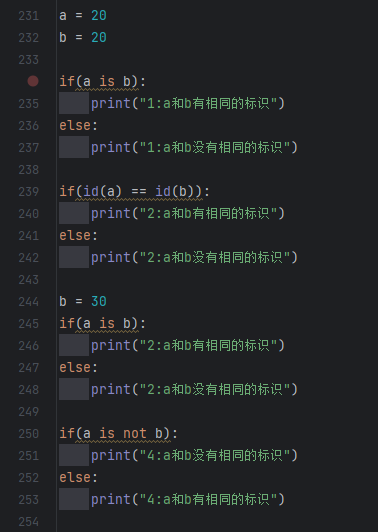


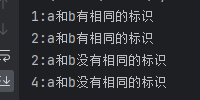
Identity operator



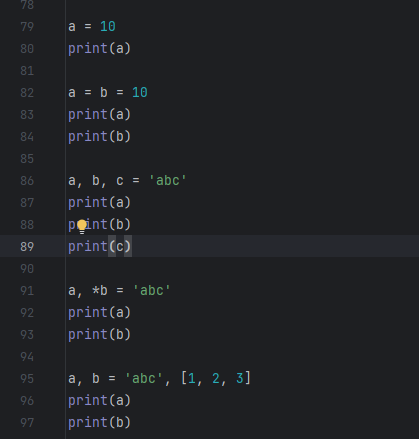


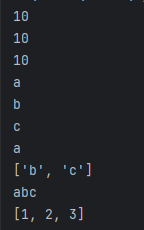
Identity arithmetic

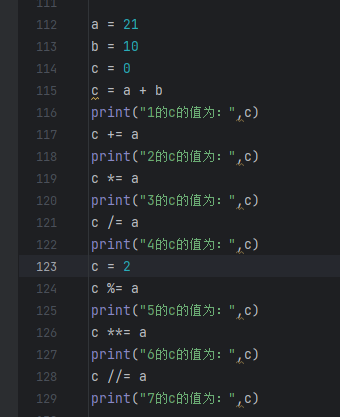




Assignment operation

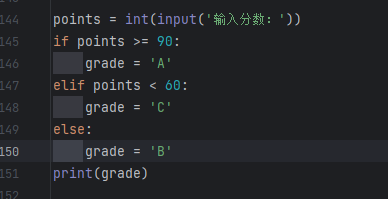




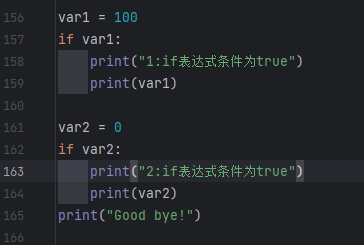


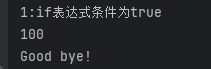


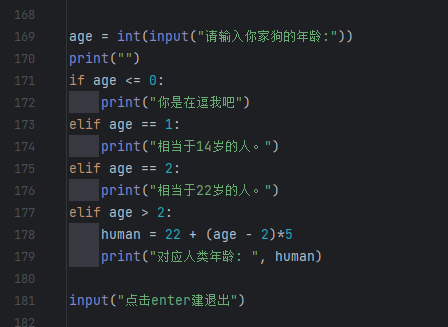
Conditional branch statement

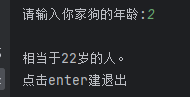


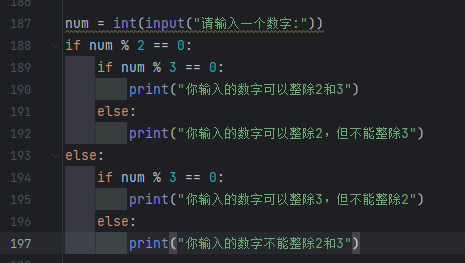






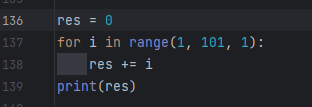




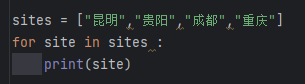




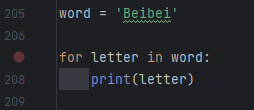
Loop statement

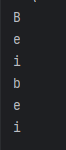


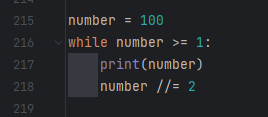


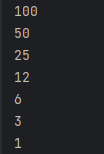


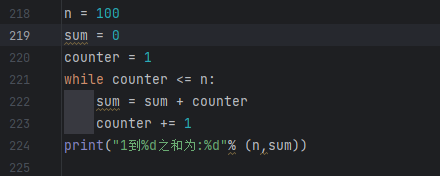




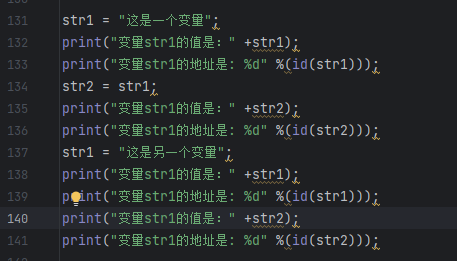


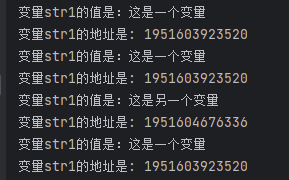


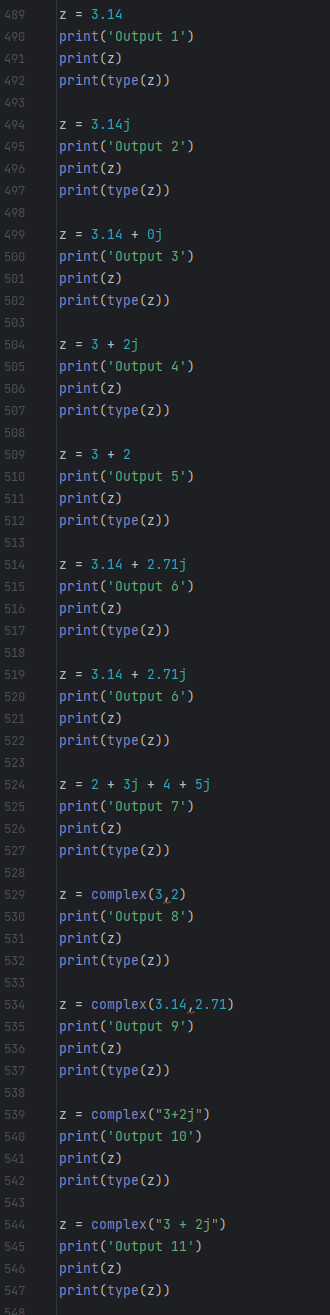


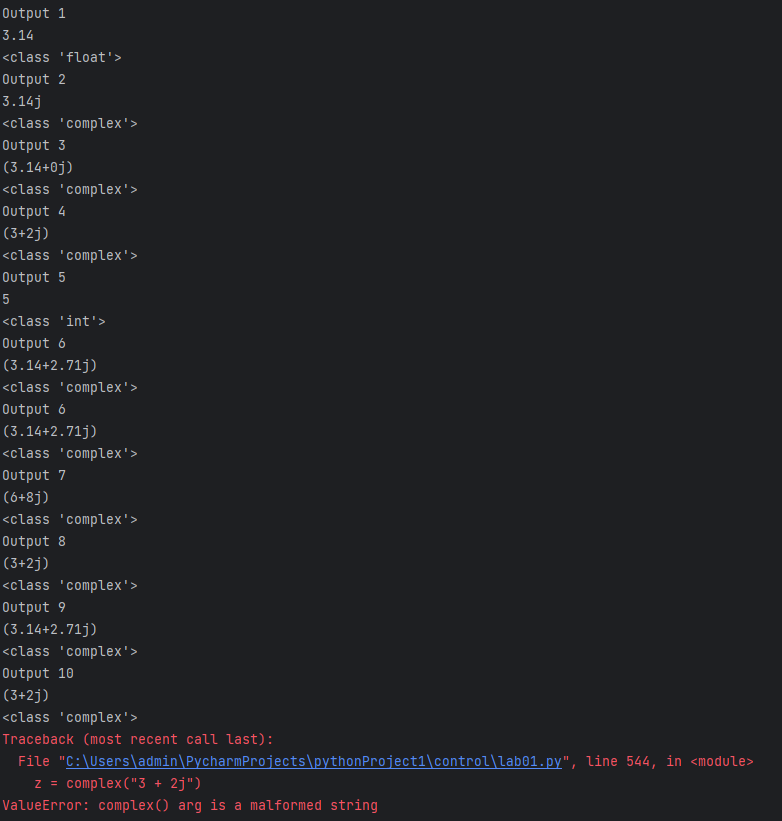


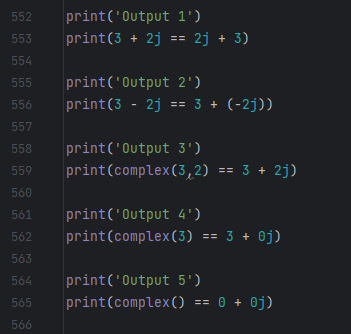


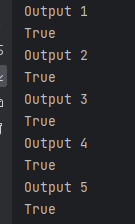


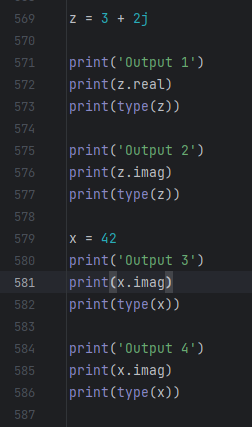


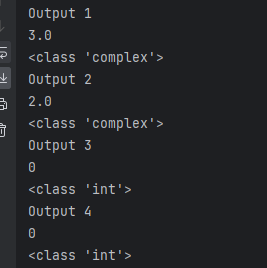


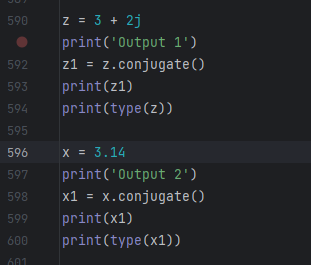


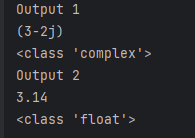


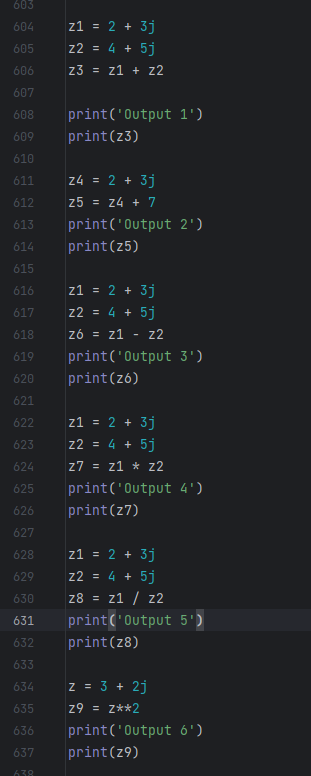


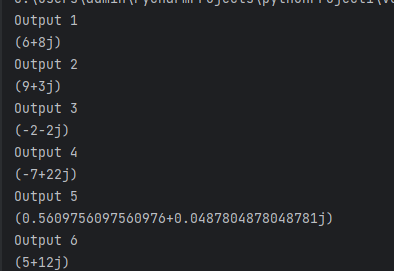


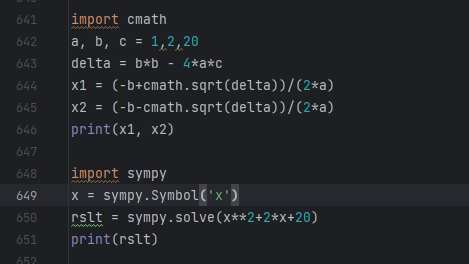


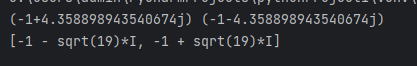


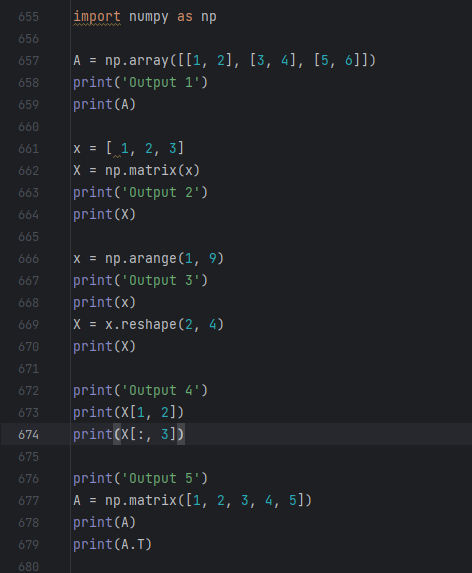


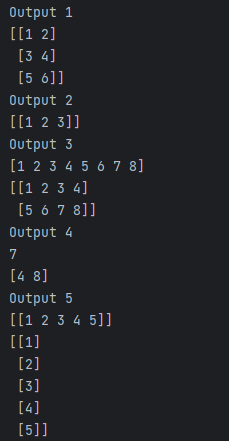




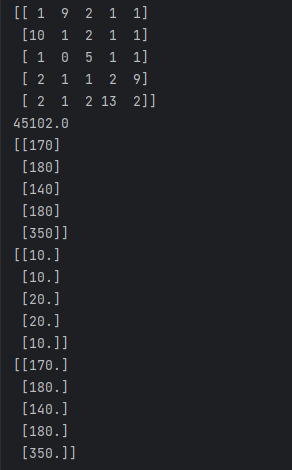




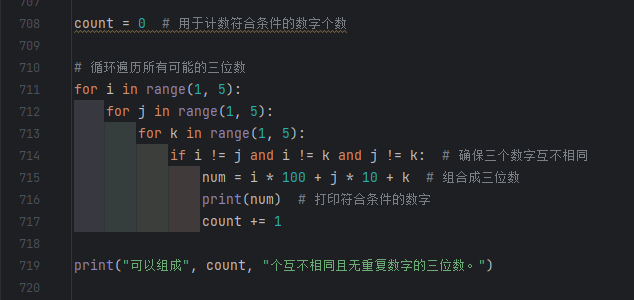


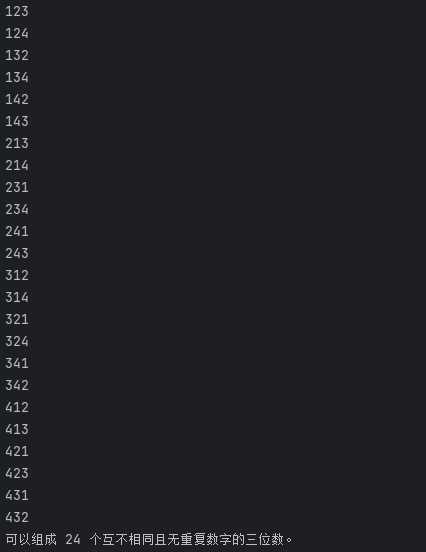




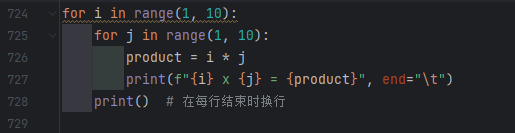


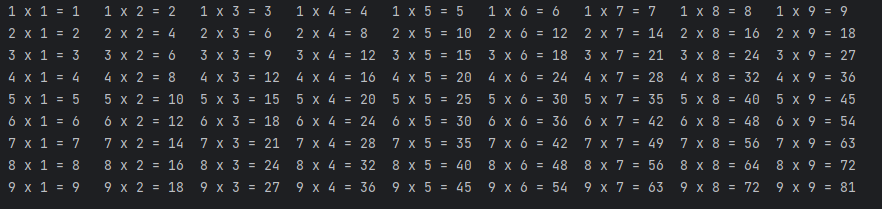
Question1



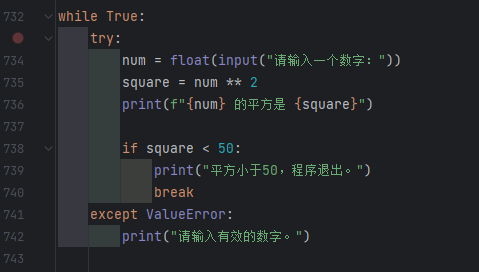


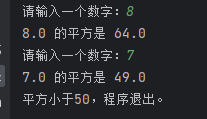
Question2



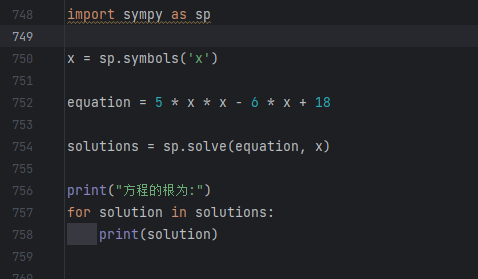


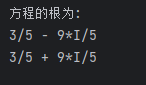
Question3



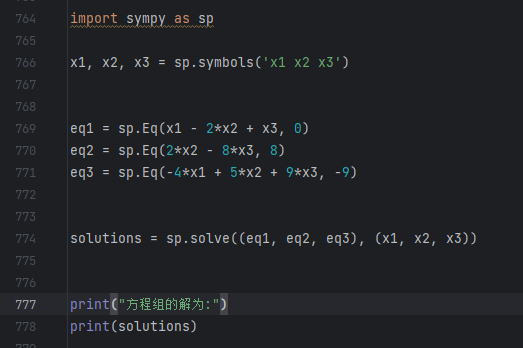


Question4





Question5





**3. Analysis and discussion**

Through this experiment, I learned about python's comment function, data types, the use of operators (comparison operators, bit operators, member operators, identity operators), as well as identity operations, assignment statements, conditional branch statements, loop statements, formatted output and other functions. I also learned about python's data processing and operations with very good results, such as the representation and operation of complex numbers, the representation of conjugate complex numbers, the calculation of the roots of equations, matrix operations, etc

**4. Teachers' comments and score**