

Experiment1-董皓彧

环境:

Visual Studio Code 1.82.2

gcc.exe (x86_64-win32-seh-rev0, Built by MinGW-w64 project) 8.1.0

必做题

所有编译错误:

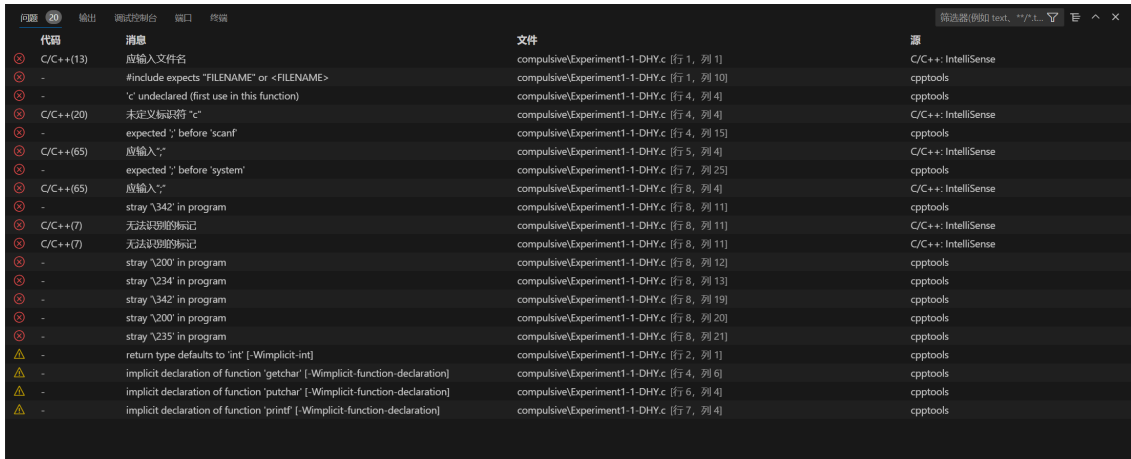
- 代码:

```
#include "stdio.h";
main()
{ int a,b;
  c=getchar()
  scanf("%d%d",&a,&b);
  putchar(c);
  printf("%d,%d\n",a,b)
  system("pause");
}
```

- 详细信息:

```
Error: [line:1, column:1] 应输入文件名
Error: [line:1, column:10] #include expects "FILENAME" or <FILENAME>
Error: [line:4, column:4] 'c' undeclared (first use in this function)
Error: [line:4, column:4] 未定义标识符 'c'
Error: [line:4, column:15] expected ';' before 'scanf'
Error: [line:5, column:4] 应输入';'
Error: [line:7, column:25] expected ';' before 'system'
Error: [line:8, column:4] 应输入';'
Error: [line:8, column:11] stray '\342' in program
Error: [line:8, column:11] 无法识别的标记
Error: [line:8, column:11] 无法识别的标记
Error: [line:8, column:12] stray '\200' in program
Error: [line:8, column:13] stray '\234' in program
Error: [line:8, column:19] stray '\342' in program
Error: [line:8, column:20] stray '\200' in program
Error: [line:8, column:21] stray '\235' in program
warning: [line:2, column:1] return type defaults to 'int' [-wimplicit-int]
warning: [line:4, column:6] implicit declaration of function 'getchar' [-wimplicit-function-declaration]
warning: [line:6, column:4] implicit declaration of function 'putchar' [-wimplicit-function-declaration]
warning: [line:7, column:4] implicit declaration of function 'printf' [-wimplicit-function-declaration]
```

- 运行截图：



正确代码：

- 代码：

```
#include"stdio.h"
#include"stdlib.h" // 解决调用system函数报implicit declaration of function
'system'的warning

void main() {
    int a,b;
    char c=getchar();
    scanf("%d%d",&a,&b);
    putchar(c);
    printf("%d,%d\n",a,b);
    system("pause");
    return;
}
```

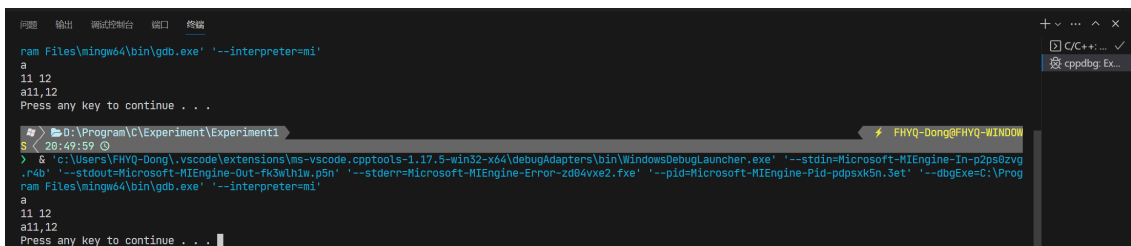
- 输入：

```
a
11 12
```

- 输出：

```
a11,12
```

- 运行截图：



选做题

练习3-1:

- 题目:

填入正确的头文件名

- 代码:

```
#include<stdio.h>
#include<math.h>

void main() {
    double a, b, z;
    printf("input a and b: ");
    scanf("%lf, %lf", &a, &b);
    z = exp(a*a + b*b);
    printf("z=%lf\n", z);
    return;
}
```

- 输入:

input a and b: 1, 2

- 输出:

z=148.413159

- 运行截图:



练习3-2:

- 题目

如果要求变量 x, y, c, d 的值分别为20, 30, x, Y, 则正确的数据输入格式是什么?

- 代码:

```
#include<stdio.h>

void main() {
    int x, y;
    char c, d;
    scanf("%d%d", &x, &y);
    scanf("%c%c", &c, &d);
    printf("x=%d, y=%d\nc=%c, d=%c", x, y, c, d);
    return;
}
```

- 输入：

20 30XY

- 输出：

x=20, y=30
c=X, d=Y

- 运行截图：



练习3-7：

- 题目

编写一个C程序，将从键盘输入的小写字母转换为大写字母后输出

- 代码：

```
#include<stdio.h>

void main() {
    char c;
    scanf("%c", &c);
    printf("%c\n", c - 32);
    return;
}
```

- 输入：

a

- 输出：

A

- 运行截图：

