**实验一**

**main.cpp**

**#include <iostream>**

**#include <cstdio>**

**#include "complex.hpp"**

**using namespace std;**

**int main()**

**{**

**//float real, imag;**

**complex complex1(3,4);**

**complex1.printComplex();**

**return 0;**

**}**

**complex.hpp**

**#include <iostream>**

**#include <cstdio>**

**#include <math.h>**

**using namespace std;**

**class complex**

**{**

**public:**

**complex();**

**complex(float real ,float imag);**

**void setComplex(float real, float imag);**

**float getReal();**

**float getImag();**

**void printComplex();**

**private:**

**float imag;**

**float real;**

**};**

**complex.cpp**

**#include <iostream>**

**#include <cstdio>**

**#include "complex.hpp"**

**using namespace std;**

**complex::complex()**

**{**

**real = 1;**

**imag = 1;**

**}**

**complex::complex(float real1 ,float imag1)**

**{**

**real = real1;**

**imag = imag1;**

**}**

**void complex::setComplex(float real ,float imag)**

**{**

**real = real;**

**imag = imag;**

**}**

**float complex::getReal()**

**{**

**return real;**

**}**

**float complex::getImag()**

**{**

**return imag;**

**}**

**void complex::printComplex()**

**{**

**printf("Real=%.2f and Imag=%.2f\n",real,imag);**

**printf("Complex Module=%.2f\n",sqrt(real\*real + imag\*imag));**

**printf("Complex argz=%.2f¶È\n",atan(imag/real)\*180/3.14);**

**}**

**实验截图：**

