实验（1）

程序源代码：

// main.cpp

// 实验1

// Created by mac on 16/6/3.

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#include <iostream>

using namespace std;

int main(int argc, const char \* argv[]) {

// insert code here...

int m,n;

std::cout << "Please input two integers:";

cin>>m>>n;

try {

if(n==0) throw 0;

cout<<(m/n)<<endl;

} catch (int) {

cout<<"Divided by 0!"<<endl;

return -1;

}

return 0;

}

正常程序运行结果：

**Please input two integers:6 3**

**2**

**Program ended with exit code: 0**

**异常程序运行结果：**

**Please input two integers:6 0**

**Divided by 0!**

**Program ended with exit code: 255**

实验（2）

程序源代码：

// main.cpp

// 实验2

// Created by mac on 16/6/3.

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#include <iostream>

using namespace std;

template <class T>

T division(T x,T y);

int main(int argc, const char \* argv[]) {

// insert code here...

double m,n;

cout << "Please input two integers:";

cin>>m>>n;

try {

//if(n==0) throw 0;

cout<<division(m,n)<<endl;

} catch (int) {

cout<<"Divided by 0!"<<endl;

return -1;

}

return 0;

}

template <class T>

T division(T x,T y){

if(!y)

throw 0;

return x/y;

}

程序正常运行结果：

**Please input two integers:4 5**

**0.8**

**Program ended with exit code: 0**

程序异常运行结果：

**Please input two integers:5.8 0**

**Divided by 0!**

**Program ended with exit code: 255**

实验（3）

程序源代码：

// main.cpp

// 实验3

// Created by mac on 16/6/3.

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#include <iostream>

using namespace std;

void myterm(){

cout<<"This is my terminater."<<endl;

exit(1);

}

int main(int argc, const char \* argv[]) {

// insert code here...

try {

set\_terminate(myterm);

throw "Exception...";

} catch (int i) {

}

return 0;

}

程序正常运行结果：

**This is my terminater.**

**Program ended with exit code: 1**

作业（5）

程序源代码：

// main.cpp

// 作业5

// Created by mac on 16/6/3.

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#include <iostream>

#include<cmath>

using namespace std;

class Caculator{

int value;

public:

Caculator(int v=0){

value=v;

}

~Caculator(){}

double my\_sqrt(){

if(value<0) throw 0;

return sqrt(value);

}

void modify(int v){

value=v;

}

};

int main(int argc, const char \* argv[]) {

// insert code here...

Caculator c1;

try {

int x;

cout<<"Please input number:";

cin>>x;

c1.modify(x);

cout<<"The sqrt resault is:"<<c1.my\_sqrt()<<endl;

} catch (int) {

cout<<"The value must greater than zero!"<<endl;

return -1;

}

return 0;

}

程序正常运行结果：

**Please input number:25**

**The sqrt resault is:5**

**Program ended with exit code: 0**

程序异常运行结果：

**Please input number:-9**

**The sqrt resault is:The value must greater than zero!**

**Program ended with exit code: 255**

作业（5）

程序源代码：

// main.cpp

// 作业6

// Created by mac on 16/6/3.

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#include <iostream>

#include <cstdlib>

#include <ctime>

using namespace std;

int main(int argc, const char \* argv[]) {

// insert code here...

int a[10],index;

srand(time(NULL));

for (int i=0; i<10; i++) {

a[i]=rand()%100;

cout<<a[i]<<' ';

}

try{

cout<<endl<<"Input index:";

cin>>index;

if(index>9||index<0) throw 0;

cout<<"The value is:"<<a[index]<<endl;

}

catch(int){

cout<<"Out of range!"<<endl;

return -1;

}

return 0;

}

程序正常运行结果：

**13 84 57 5 43 37 61 34 55 60**

**Input index:8**

**The value is:55**

**Program ended with exit code: 0**

程序异常运行结果：

**9 68 14 18 78 71 99 25 6 43**

**Input index:10**

**Out of range!**

**Program ended with exit code: 255**

程序异常运行结果：

**33 48 22 69 39 46 60 87 8 21**

**Input index:-2**

**Out of range!**

**Program ended with exit code: 255**