组号: _____



信息科学与工程学院实验报告

《面向对象程序设计》

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时间:	

面向对象程序设计实验报告

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时间		地点		周次		页码	
源码	□ 无源码		无源码 [〕文档源码	□ 托管	源码	

实验报告要求:请围绕实验目的、实验内容、实验过程(图文并茂)、实验结果(高清截图)、实验总结(重点阐述)五个部分进行撰写。报告中若涉及源代码内容,请在附录部分提供完整源码及源码托管地址。

报告撰写完毕后请提交 PDF 格式版本到云班课。

一、实验目的

掌握指针和引用本质

掌动态内存分配方法(new,delete)

了解异常处理机制(try-catch)

强化 visual studio 代码调试技巧

二、实验内容

- * 读程序:本章课后习题第四大题(P.48页);
- * 写程序:本章课后习题第五大题(P.50页)

三、实验过程

E310 上机

四、实验结果

四大题:

■ C:\Users\ASUS\Desktop\c语言\jhk\bin\Debug\jhk.exe



1

III C:\Users\ASUS\Desktop\c语言\jhk\bin\Debug\jhk.exe



```
III C:\Users\ASUS\Desktop\c语言\tgd\bin\Debug\tgd.exe
     ■ C:\Users\ASUS\Desktop\c语言\fgbhm\bin\Debug\fgbhm.exe
                                                                             =50.6 y=10 z=A
                                                                             =216.34 y=10 z=A
                                                                            =216.34 y=2 z=A
                                                                            =216.34 y=2 z=E
                                                                            Process returned 0 (0x0) execution time: 0.234 s
     Process returned 0 (0x0) execution time: 0.699 s
      ress any key to continue.
                                                                           Press any key to continue.
                          3
     III C:\Users\ASUS\Desktop\c语言\fdxcd\bin\Debug\fdxcd.exe
                                                                          II C:\Users\ASUS\Desktop\c语言\fdxcd\bin\Debug\fdxcd.exe
                                                                          x=35, y=25
                   2000
2000
     500
            2000
                                                                          Process returned 0 (0x0) execution time: 0.484 s
    Process returned 0 (0x0) execution time: 0.656 s
                                                                          Press any key to continue.
     Press any key to continue.
                        5
                                                                                                     6
五大题:
                                                                        I C:\Users\ASUS\Desktop\c语言\fggh\bin\Debug\fggh.exe
III C:\Users\ASUS\Desktop\c语言\fggh\bin\Debug\fggh.exe
                                                                       C=12, 5664S=12, 5664
Please input x and y:
123 234
sum=357
                                                                       Process returned 0 (0x0) execution time: 2.180 s
                                                                       Press any key to continue.
Process returned 0 (0x0)
                              execution time: 19.108 s
Press any key to continue.
                          1
                                                                        LI C:\Users\ASUS\Desktop\c语言\fggh\bin\Debug\fggh.exe
C:\Users\ASUS\Desktop\c语言\fggh\bin\Debug\fggh.exe
                                                                         该同学的分数为: 77
 2 3 4 5 6 7 -1 -2 -3 -4 -5 -6 -7 8 9 10 -8 -9 -10
                                                                         亥同学的年龄为: 19
亥同学的成绩为: 77
正数为10
负数为10
                                                                       Process returned 0 (0x0) execution time: 54.959 s
Process returned 0 (0x0) execution time: 41.378 s
                                                                       Press any key to continue.
Press any key to continue.
                            3
```

```
五、实验总结
  无
■ 附录:程序源码
四、
1.#include <iostream>
using namespace std;
int main()
{
    int a,b,c;
    char ch;
    cin>>a>>ch>>b;
    cout<<a<<endl<<ch<<endl<<c;
    return 0;
}
2. #include <iostream>
using namespace std;
int main()
    int arr[4]=\{1, 2, 3, 4\};
    int *a=arr;
    int *&p=a; //p 是一个指针引用
    p++;
    *p=100;
    cout<<*a<<" "<<*p<<end1;
    for (int i=0; i<4; i++)
       cout << arr[i] << \mbox{"} \mbox{"};
    cout<<endl;</pre>
    int b=10;
    p=&b;
    \operatorname{cout}<<*a<<" "<<*p<<endl;
    for (int i=0; i<4; i++)
```

```
cout<<arr[i]<<" ";</pre>
    cout<<end1;</pre>
    return 0;
3. #include <iostream>
using namespace std;
int i=0;
int main()
    int i=5;
        int i;
        i=7;
        cout<<"::i="<<::i<<endl;
        cout << "i =" << i << end1;
         ::i=1;
        cout << "::i = "<<::i << end1;
    cout << "i =" << i << end1;
    cout << "::i="<<::i<<endl;
    i+=::i;
    ::i=100;
    cout << "i =" << i << end1;
    cout<<"::i="<<::i<<endl;
    return 0;
4. #include <iostream>
using namespace std;
void f(double x=50.6, int y=10, char z='A');
int main()
    double a=216.34;
    int b=2;
    char c='E';
    f();
    f(a);
    f (a, b);
    f(a, b, c);
    return 0;
void f(double x, int y, char z)
```

```
cout << "x =" << x << " y =" << y << " z =" << z << end1;
5. #include <iostream>
using namespace std;
int & s(const int &a, int &b)
    b+=a;
    return b;
int main()
     int x=500, y=1000, z=0;;
     cout << x << ' \ t' << y << ' \ t' << z << ' \ n';
     s(x, y);
     cout << x << ' \ t' << y << ' \ t' << z << ' \ n';
     z=s(x, y);
     cout << x << ' \ t' << y << ' \ t' << z << ' \ n';
     s(x, y) = 200;
     cout << x << ' \ ' << y << ' \ ' << z << ' \ ' ;
     return 0;
6. #include <iostream>
using namespace std;
void fun(int x, int &y)
    x+=y;
    y+=_X;
int main()
    int x=5, y=10;
     fun(x, y);
     fun(y, x);
     cout << "x=" << x << ", y=" << y << end1;
     return 0;
五:
1. #include <iostream>
```

```
using namespace std;
int add(int a, int b);
int main()
    int x, y, sum;
    cout << "Please input x and y: \n" << endl;
    cin >> x >> y;
    sum=x+y;
    cout<<"sum="<<sum<<end1;</pre>
    return 0;
int add(int a, int b)
    a+=b;
    return a;
2. #include iostream
using namespace std;
#define PI 3.1415926f
int main()
  double a, C, S;
  cin>>a;
  C=2*PI*a;
  S=PI*a*a;
  cout << "C=" << C << "S=" << S << end1;
  return 0;
3. #include <iostream>
using namespace std;
int main()
int *s, a=0, b=0, i;
s=new int[20];
 if(!s)
  cout<<"allocation failure\n";</pre>
  return -1;
 for (i=0; i<20; i++)
  cin>>s[i];
```

```
if(s[i]>0)
  a++;
 if(s[i]<0)
  b++;
 cout<<"正数为"<<a<<end1;
 cout<<"负数为"<<b</endl;
 delete[]s;
 return 0;
4. #include iostream
using namespace std;
float checkAgeScore(int age, float score)
if ((age < 16) || (age > 25))
throw age;
if ((score < 1) || (score > 5))
throw score;
if (score == 5)
cout << "该同学的百分制成绩为 90~100" << end1;
if (score == 4)
cout << "该同学的百分制成绩为 80~90" << end1;
if (score == 3)
cout << "该同学的百分之成绩为 70~80" << end1;
if (score == 2)
cout << "该同学的百分之成绩为 60~70" << end1;
if (score == 1)
cout << "该同学的百分之成绩为 50~60" << end1;
if (score == 0)
cout << "该同学的百分之成绩为 50 以下" << end1;
return score;
int main()
float checkAgeScore(int age, float score);
string a;
int b;
float c;
cin >> a >> b >> c;
```

```
try {
    checkAgeScore(b, c);
}
catch (int)
{
    cout << "该同学的年龄为: " << b << endl;}
    catch (float)
{
    cout << "该同学的分数为: " << c << endl;
}
    cout << "该同学的年龄为: " << b << endl;
}
cout << "该同学的成绩为: " << c << endl;
}
}
```

母:根据实际撰写内容自行拓展页面,作业内容尾部尽量不要留有空白