```
9 #include <iostream>
10 using namespace std;
13 class Operation{
14 public:
       Operation(){
           m_numberX = 0.0;
          m numberY = 0.0;
       void Setxy(double x, double y){
           m_numberX = x;
           m_numberY = y;
       virtual double GetResult() = 0;
27 protected:
       double m_numberX;
       double m_numberY;
30 };
33 class OperationAdd : public Operation{
34 public:
       OperationAdd():Operation(){}
       double GetResult(){
           return m_numberX + m_numberY;
40 };
42 class OperationSub : public Operation{
```

```
43 public:
       OperationSub():Operation(){}
       double GetResult(){
           return m_numberX - m_numberY;
      }
49 };
51 class OperationMul : public Operation{
52 public:
       OperationMul():Operation(){}
       double GetResult(){
           return m_numberX * m_numberY;
       }
58 };
60 class OperationDiv : public Operation{
61 public:
       OperationDiv():Operation(){}
       double GetResult(){
           if (m_numberY == 0)
               return 0;
           return m_numberX / m_numberY;
69 };
72 class OperationFactory
73 {
74 public:
       enum EMOperate {Add, Sub, Mul, Div};
       OperationFactory(){}
       Operation* CreateOperate(EMOperate operate){
           Operation* pOper = nullptr;
           switch (operate) {
               case Add:
                   pOper = new OperationAdd(); break;
               case Sub:
                   pOper = new OperationSub(); break;
               case Mul:
                   pOper = new OperationMul(); break;
```

简单运算工厂负责如何去实例化对象,以后如果需要再次进行扩展,只是在基于Operation类进行派生,然后重新实现GetResult()方法,再在工厂类switch中添加分支即可