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CECS 2222-22
Actividad 1.1
12 de marzo de 2022
Código fuente:
#include <iostream>
#include <iomanip>
using namespace std;
//esta parte pertenece al archivo Stock.h
class Stock{
    private:
        float shares, pps, comm;
        //comm es el porciento de comision
    public:
        Stock(); //default constructor
        Stock(float, float);//constructor con parametros
        ~Stock();
        //mutators
        void setShares(float);
        void setPrice(float);
        void setComm(float);
        void setAll(float, float, float);
        //accessors
        float getShares() const;
        float getPrice() const;
        float getTruePrice() const;
        float getComm() const;
        float getCommPrice() const;
        float getTotal() const;
        void display() const;
};
//esta parte pertenece al archivo Stock.cpp
Stock::Stock(){
    setShares(0);
    setPrice(0);
    setComm(0);
}
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Stock::Stock(float aShares, float aPps, float aComm){
    setShares(aShares);
    setPrice(aPps);
    setComm(aComm);
}
void Stock::setAll(float aShares, float aPps, float aComm){
    setShares(aShares);
    setPrice(aPps);
    setComm(aComm);
}
Stock::~Stock(){
    cout << "\nThank you for using our services.\n";</pre>
}
void Stock::setShares(float aShares){
    shares = aShares;
}
void Stock::setPrice(float aPps){
    pps = aPps;
}
void Stock::setComm(float aComm){
    comm = aComm;
}
float Stock::getShares() const{
    return shares;
}
float Stock::getPrice() const{
    return pps;
}
float Stock::getComm() const{
    return comm * 0.01;
}
float Stock::getTruePrice() const{
    return getPrice() * getShares();
}
float Stock::getCommPrice() const{
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return getTruePrice() * getComm();
}
float Stock::getTotal() const{
    return getTruePrice() + getCommPrice();
}
void Stock::display() const{
    cout << "\nAmount paid for the stock: $" << getTruePrice() << "\</pre>
n":
    cout << "Amount of commission: $" << getCommPrice() << "\n";</pre>
    cout << "Total amount paid: $" << getTotal() << "\n";</pre>
}
//esta parte pertenece al archivo main.cpp
int main(){
    Stock stonk;
    float Shares=0, PricePShare=0, Commission=0;
    cout << "How many shares of stock have you bought? ";</pre>
    cin >> Shares:
    cout << "What was the stock's price per share? $";</pre>
    cin >> PricePShare;
    cout << "What was the percent commission for the transaction? ";</pre>
    cin >> Commission;
    stonk.setAll(Shares, PricePShare, Commission);
    stonk.display();
    return 0;
}
```

Ejecución:

