

PF Semester Project

```
#include <iostream>

#include <fstream>

using namespace std;

int main()
{

    fstream data, tdata;

    string x, y, user, pin, option;

    int choice, money, profitLoss, xx;

    cout<<"\t\t\t*****Welcome to Crypto Portfolio*****"<<endl;
    cout<<"\t\t\t*****"<<endl;
    cout<<"\t\t\t-----*****-----"<<endl;
    cout<<endl;
    cout<<"_____";
    cout<<"_____"<<endl;
    cout<<endl;
    cout<<"1. Add New Coins:"<<endl;
    cout<<"2. Add profit amount In Coin:"<<endl;
    cout<<"3. Add loss amount In Coin"<<endl;
    cout<<"4. Check Total Coins:"<<endl;
    cout<<"5. check overAll profit and loss:"<<endl;
    cout<<"6. Exit"<<endl;
    cout<<"Choose an option (1-6): ";
    cin>>choice;
    cout<<endl<<endl;
```

```

        while(choice!=1 && choice!=2 && choice!=3 && choice!=4 && choice!=5 && choice!=6)
        {
cout<<"Enter right option: "<<endl;

            cin>>choice;

        }

        switch(choice)
        {

            case 1:

                data.open("database1.txt",ios::app);

cout<<"Enter name of coin: "<<endl;

                cin>>x;

                data<<x<<endl;

                cout<<endl<<endl;

cout<<"Enter coin's Symbol, For example"<<endl;

cout<<"For Bitcoin Type BTC, for Ethereum type ETH, For Litecoin type LTC
etc.."<<endl;

                cin>>x;

                data<<x<<endl;

cout<<"How many coins do you want to add?:"<<endl;

                cin>>choice;

                cout<<endl;

                while(choice<0)
                {

                    cout<<"Enter specified amount again:"<<endl;;

                    cin>>choice;

                }

                data<<choice<<endl;

```

```

profitLoss =0;

data<<profitLoss<<endl;

data.close();

cout<<"\nYou have added coins Successfully...\n"<<endl<<endl;

cout<<"Press (1) to go to main menu: "<<endl;

cin>>choice;

break;

```

case 2:

```

data.open("database1.txt",ios::in);

tdata.open("database10.txt",ios::out);

cout<<"Enter Coin Name: "<<endl;

cin>>user;

data>>x;

while(data)

{

    if(user==x)

    {

        tdata<<x<<endl;

        cout<<"Enter Coin's Symbol: "<<endl;

        cin>>pin;

        data>>x;

        while(pin!=x)

        {

            cout<<"Wrong Symbol, Type Correct One: "<<endl;

            cin>>pin;

        }

        tdata<<x<<endl;

        cout<<"Enter Amount: "<<endl;

        cin>>choice;
    }
}

```

```

        data>>money;

        money+=choice;

        tdata<<money<<endl;


        data>>xx;


        profitLoss = xx + choice;


        tdata<<profitLoss<<endl;


        cout<<"\nAmount is Deposited Successfully...\n\n";
        return 0;
    }
    else
        tdata<<x<<endl;
        data>>x;
}
data.close();
tdata.close();
data.open("database1.txt",ios::out);
tdata.open("database10.txt",ios::in);
tdata>>x;
while(tdata)
{
    data<<x<<endl;
    tdata>>x;
}

```

```
break;
```

```
case 3:
```

```
data.open("database1.txt",ios::in);
```

```
tdata.open("database10.txt",ios::out);
```

```
cout<<"Enter Coin Name: "<<endl;
```

```
cin>>user;
```

```
data>>x;
```

```
while(data)
```

```
{
```

```
    if(user==x)
```

```
    {
```

```
        tdata<<x<<endl;
```

```
        cout<<"Enter Coin Symbol: "<<endl;
```

```
        cin>>pin;
```

```
        data>>x;
```

```
        while(pin!=x)
```

```
        {
```

```
            cout<<"Enter Correct Coin Symbol: "<<endl;
```

```
            cin>>pin;
```

```
        }
```

```
        tdata<<x<<endl;
```

```
        cout<<"Enter Amount : ";
```

```
        cin>>choice;
```

```
        data>>money;
```

```
        while(choice<0)
```

```
        {
```

```
            cout<<"Enter Valid Amount : ";
```

```
            cin>>choice;
```

```

        }
        money-=choice;
        tdata<<money<<endl;

        data>>xx;

        profitLoss = xx - choice;

        tdata<<profitLoss<<endl;

        cout<<"\nAmount is deposited Successfully...\n\n\n";
        return 0;
    }
    else
        tdata<<x<<endl;
        data>>x;

}
data.close();
tdata.close();
data.open("database1.txt",ios::out);
tdata.open("database10.txt",ios::in);
tdata>>x;
while(tdata)
{
    data<<x<<endl;
    tdata>>x;
}
break;

```

case 4:

```
data.open("database1.txt",ios::in);
cout<<"Enter Coin Name: "<<endl;
cin>>user;
data>>x;
while(data)
{
    if(user==x)
    {
        cout<<"Enter Coin Symbol: "<<endl;
        cin>>pin;
        data>>x;
        while(pin!=x)
        {
            cout<<"Enter Valid Coin Symbol: "<<endl;
            cin>>pin;
        }

        data>>money;
        cout<<"You have "<<money << " in " << pin;
        return 0;
    }
    data>>x;
}
data.close();
cout<<endl<<endl<<endl;
break;
```

case 5:

```

data.open("database1.txt",ios::in);

tdata.open("database10.txt",ios::out);

cout<<"Enter Coin Name: "<<endl;

cin>>user;

data>>x;

while(data)
{
    if(user==x)
    {
        tdata<<x<<endl;

        cout<<"Enter Coin Symbol: "<<endl;

        cin>>pin;

        data>>x;

        while(pin!=x)
        {
            cout<<"Enter Correct Coin Symbol: "<<endl;

            cin>>pin;

        }

        tdata<<x<<endl;

        data>>x>>xx;

        if(xx<0)

            cout<<"You are in "<<x << "$ loss."<<endl;

        if(xx>0)

            cout<<"You are in " << x << "$ profit."<<x;

        if(xx == 0)

            cout<<"You are not in Profit nor in Loss"<<endl;

        return 0;
    }
}

```



```

        }
        else
            tdata<<x<<endl;
            data>>x;

    }
    data.close();
    tdata.close();
    data.open("database1.txt",ios::out);
    tdata.open("database10.txt",ios::in);
    tdata>>x;
    while(tdata)
    {
        data<<x<<endl;
        tdata>>x;
    }
    break;

```

case 6:

```

cout<<"***Thank you, Have a Great Day***"<<endl;
cout<<"---*****"<<endl;
    break;

```

```

    default:cout<<"Wrong choice entered\n";

```

```

    }

```

```

    if(choice!=6)

```

```

main();

```

}