Main.cpp

```cpp
#include "interest.h"

int main()
{
    Interest i;

    i.findInterest();

    return 0;
}
```

Interest.h

```cpp
#include <iostream>

class Interest
{
private:
    double principal;
    double interestRate;
    int numberOfTimes;

public:
    void findInterest();
};
```

Interest.cpp

```cpp
#include "interest.h"
#include <iostream>
#include <iomanip>
#include <cmath>
```

```cpp
using namespace std;


void Interest::findInterest()
{

    double totalAmount;

    cout << "\tCalculate Interest Earned" << endl;

    cout << "Please input the principal: ";

    cin >> principal;

    cout << "Please input the interest rate: ";

    cin >> interestRate;

    cout << "Please input the number of times the interest
compounds: ";

    cin >> numberOfTimes;


    totalAmount = principal * pow((1 +
((interestRate/100)/numberOfTimes)), numberOfTimes);


    cout << fixed << showpoint <<setprecision(2)
    << "Interest rate: \t\t" << interestRate <<"%"<< endl
    << "Times compounded: \t" << numberOfTimes << endl
    << "Principal: \t\t$" << principal << endl
    <<"Interest: \t\t$" << totalAmount - principal << endl
    <<"Amount in savings: \t$" << totalAmount << endl;
};
```

```
        Calculate Interest Earned
  Please input the principal: 1000
  Please input the interest rate: 4.25
  Please input the number of times the interest compounds: 12
  Interest rate:          4.25%
  Times compounded:       12
  Principal:              $1000.00
  Interest:               $43.34
  Amount in savings:      $1043.34
```