

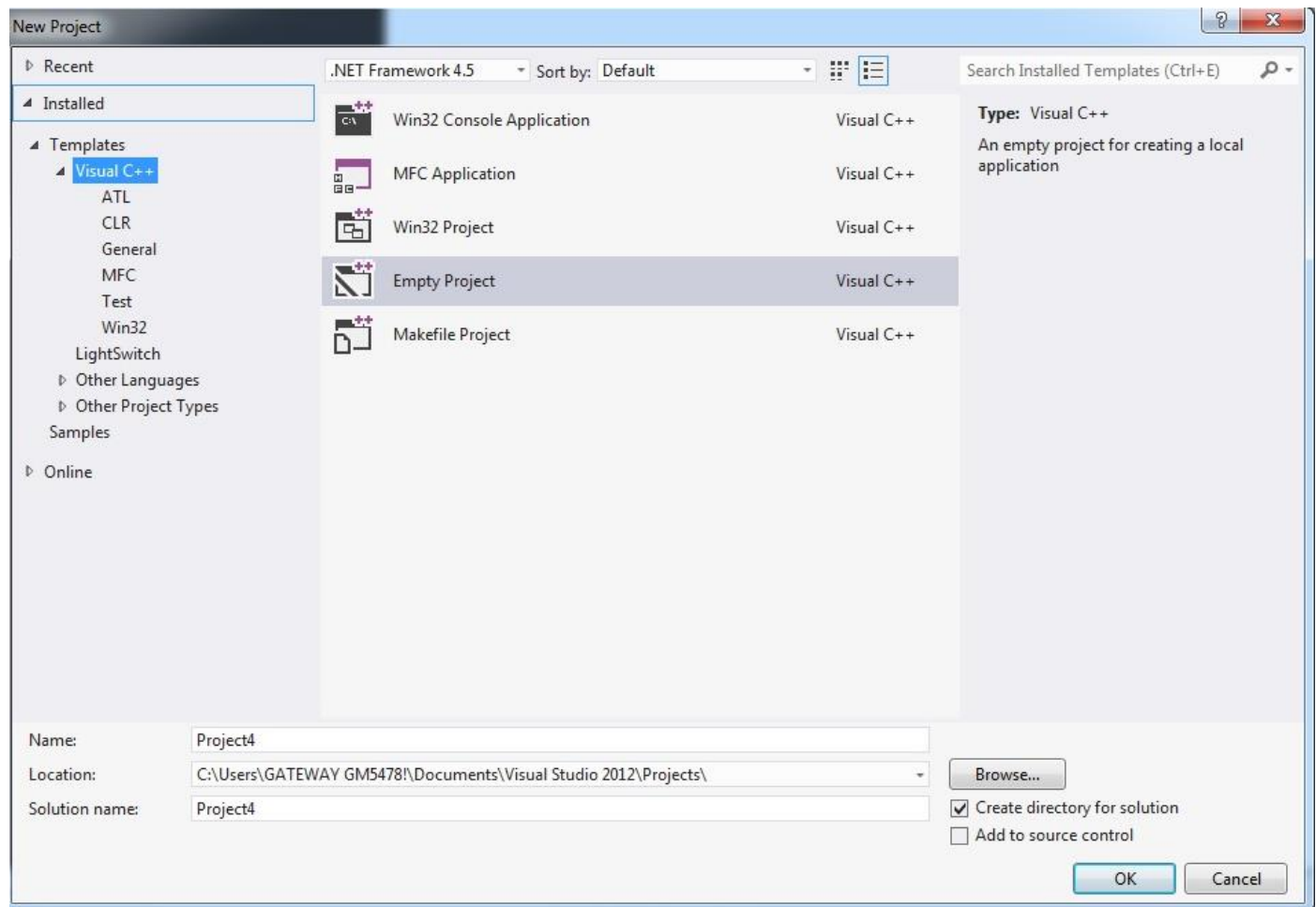
Objective: The student will be able to write a simple program to perform basic arithmetic operations.

Directions: Perform the following steps.

Step 1: Start Visual Studio.

Step 2: Select Visual C++.

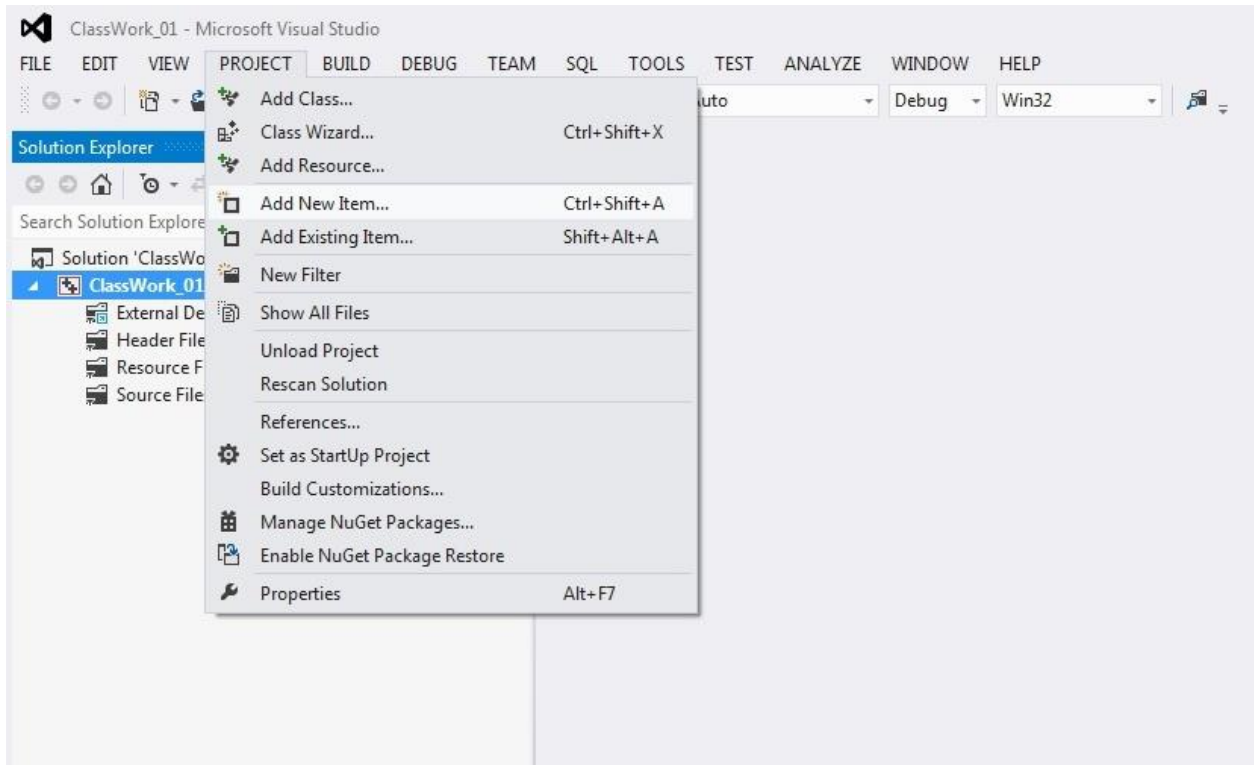
Step 3: Select Empty Project.

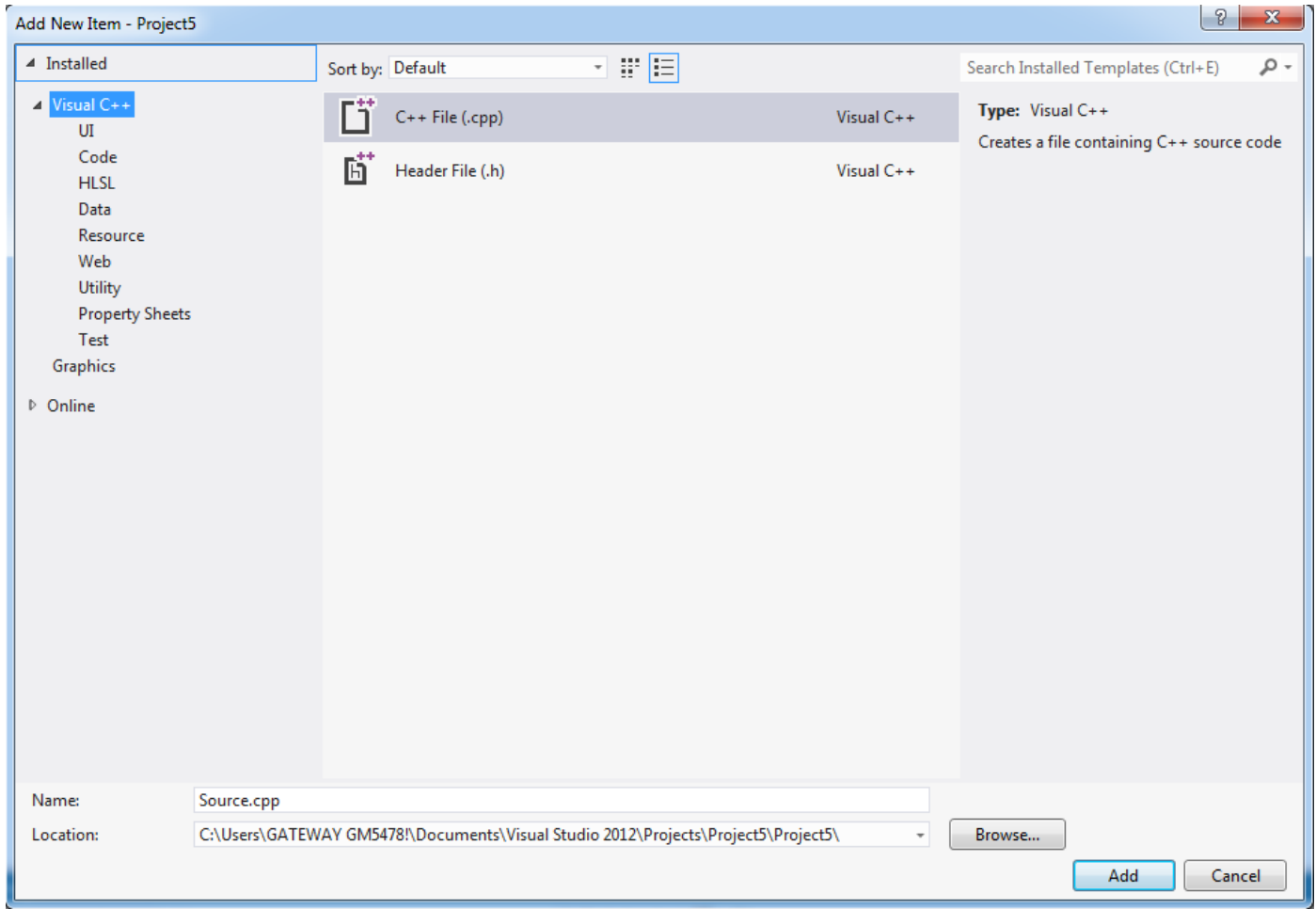


Step 4: Click on Projects.

Step 5: Click on Add New Item.

Step 6: Click on C++ file.





Step 7: Enter the following program.

```
// This is a program to calculate interest on a savings account.
// Mr. Ellsworth May 24, 2019

#include <iostream>
using namespace std;

int main()
{
    //Declare Variables

    double amountOfInvestment = 0.0;
    double interestRate = 0.0;
    double numberOfYears = 0.0;
    double newValue = 0.0;

    //Input Section

    cout << "Please enter the amount of the investment: ";
    cin >> amountOfInvestment;
    cout << endl;
    cout << "Please enter the interest rate: ";
    cin >> interestRate;
```

```
    cout << endl;
    cout << "Please enter the number of years the money has been invested for: ";
    cin >> numberOfYears;
    cout << endl;

    // Processing Section

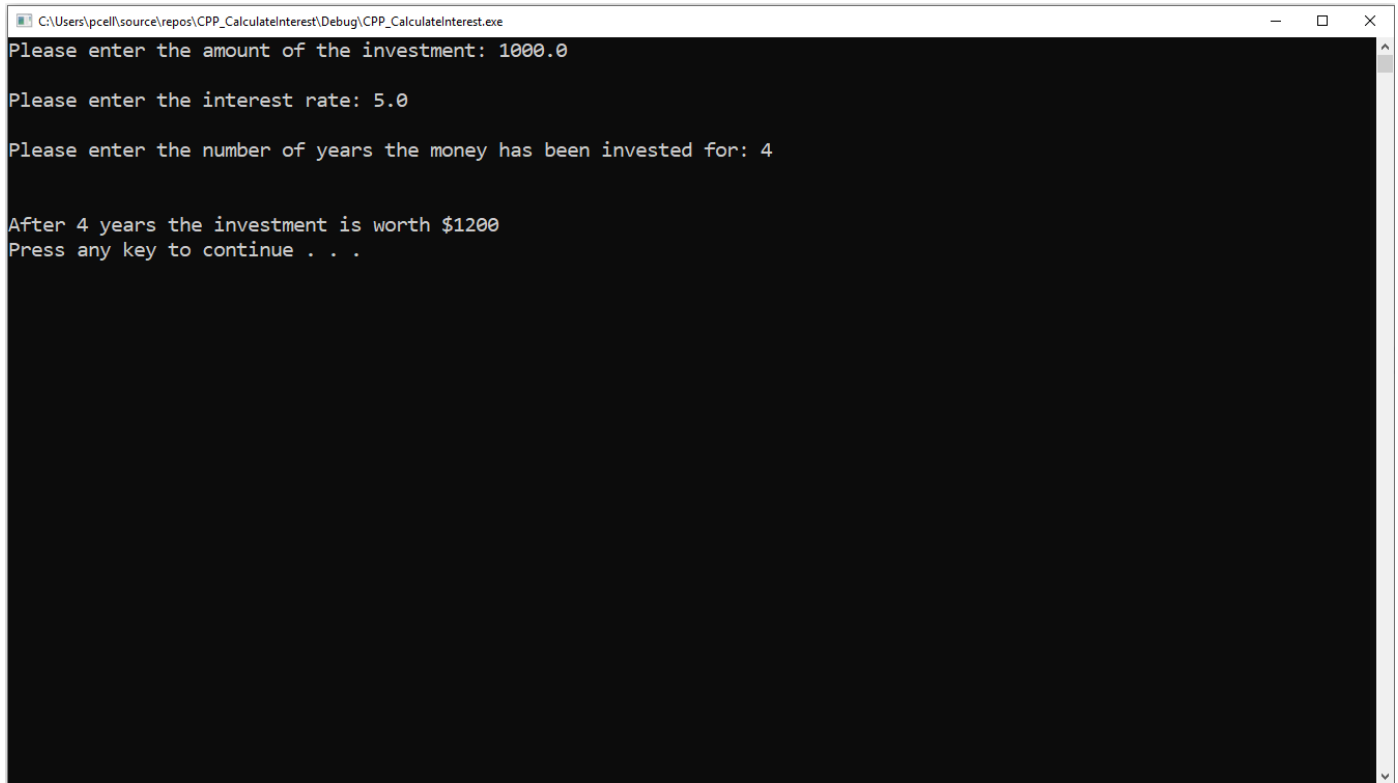
    newValue = amountOfInvestment * (interestRate / 100.0) * numberOfYears + amountOfInvestment;

    // Output Section

    cout << endl << "After " << numberOfYears << " years the investment is worth $" << newValue
<< endl;
    system("pause");
    return 0;
}
```

Step 8: Press the Control key and the F5 key to run the program.

## Sample Output



```
C:\Users\pcell\source\repos\CPP_CalculateInterest\Debug\CPP_CalculateInterest.exe
Please enter the amount of the investment: 1000.0
Please enter the interest rate: 5.0
Please enter the number of years the money has been invested for: 4

After 4 years the investment is worth $1200
Press any key to continue . . .
```

Step 9: This is end of this tutorial.