

C:\Users\chgan\OneDrive\Series.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug Area.cpp Series.cpp

```
1 #include <iostream>
2 using namespace std;
3 int main() {
4     int n;
5     double sum = 0.0;
6     cout << "Enter the number of terms in the series: ";
7     cin >> n;
8     for (int i = 1; i <= n; ++i) {
9         sum += 1.0 / i;
10    }
11    cout << "Sum of the series: " << sum << endl;
12    return 0;
13 }
14
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Series.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 0.33s
```

Line: 14 Col: 1 Sel: 0 Lines: 14 Length: 305 Insert Done pars...

C:\Users\chgan\OneDrive\Ser

```
Enter the number of terms in the series: 5
Sum of the series: 2.28333

-----
Process exited after 2.698 seconds with return value 0
Press any key to continue . . .
```

C:\Users\chgan\OneDrive\Degree.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug Area.cpp Series.cpp Degree.cpp

```
1 #include <iostream>
2 using namespace std;
3 class Degree {
4 public:
5     void getDegree() {
6         cout << "I got a Degree" << endl;
7     }
8 };
9 class Undergraduate : public Degree {
10 public:
11     void getDegree() {
12         cout << "I am an Undergraduate" << endl;
13     }
14 };
15 class Postgraduate : public Degree {
16 public:
17     void getDegree() {
18         cout << "I am a Postgraduate" << endl;
19     }
20 };
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Degree.exe
- Output Size: 1.83334732055664 MiB
- Compilation Time: 0.33s
```

Line: 2 Col: 21 Sel: 0 Lines: 33 Length: 692 Insert Done pars...

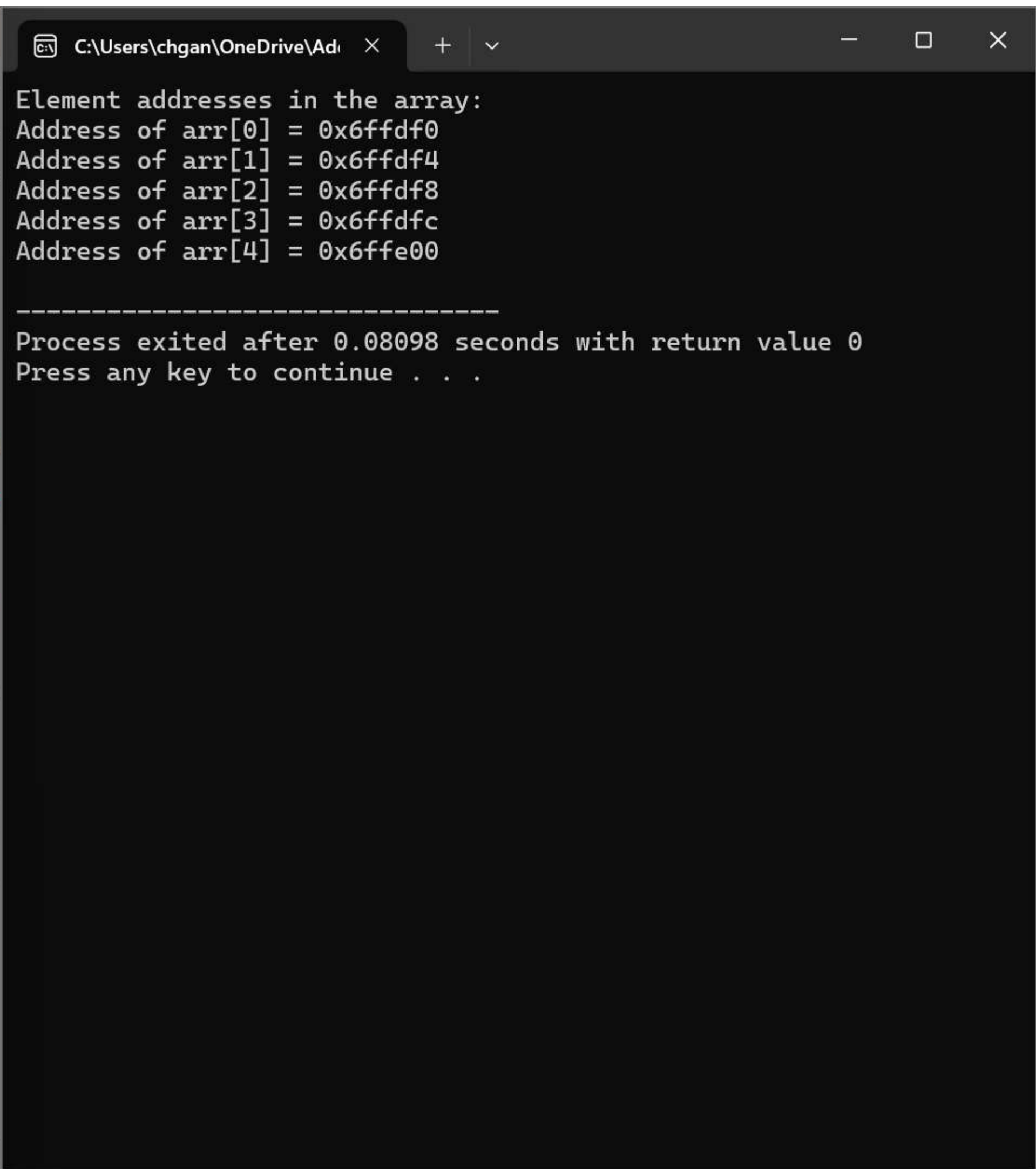
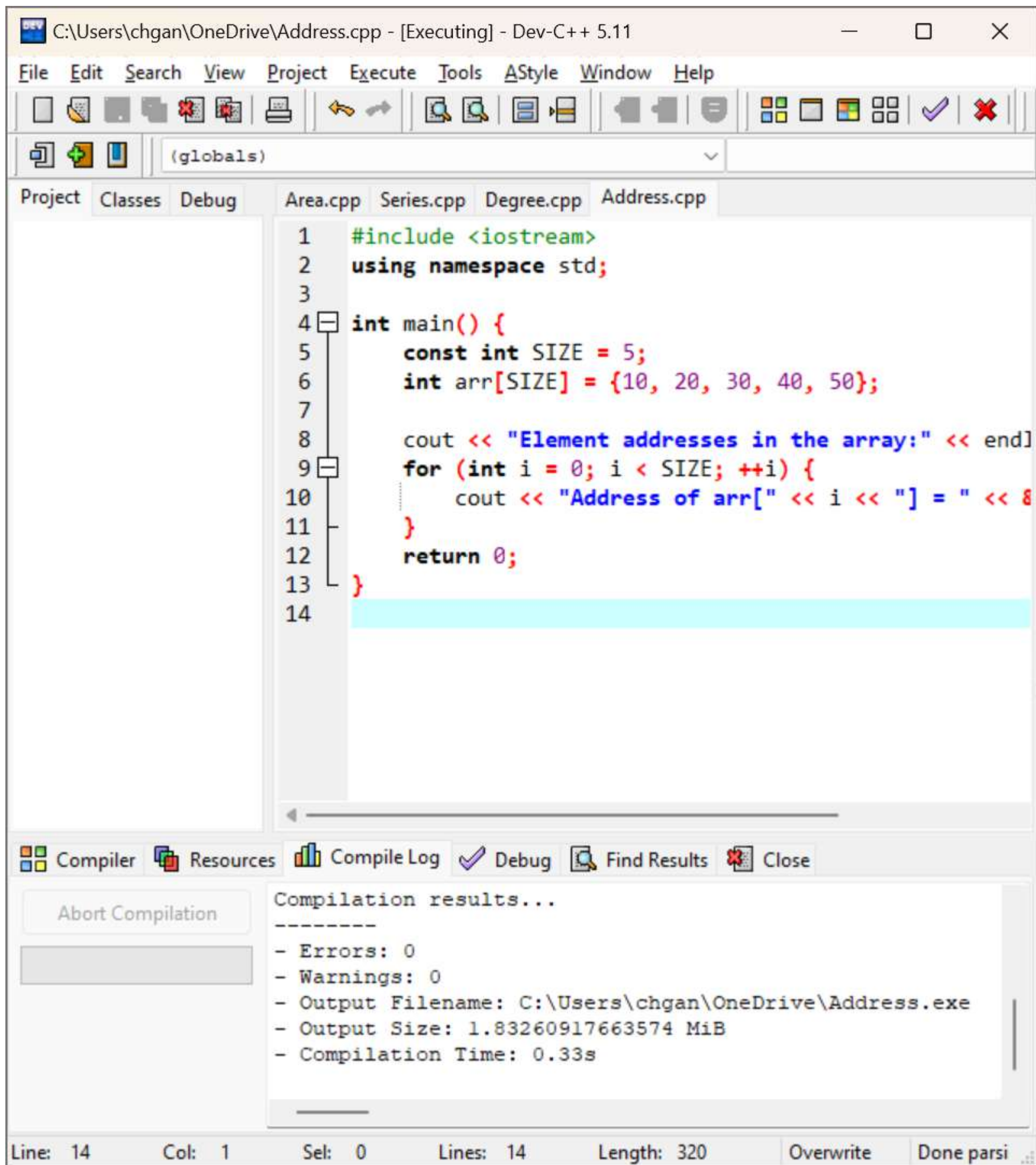
C:\Users\chgan\OneDrive\De

Calling functions from objects:  
I got a Degree  
I am an Undergraduate  
I am a Postgraduate

-----

Process exited after 0.0718 seconds with return value 0  
Press any key to continue . . .





C:\Users\chgan\OneDrive\Smallest.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug Area.cpp Series.cpp Degree.cpp Address.cpp Smallest.cpp

```
1 #include <iostream>
2 using namespace std;
3 int findSmallestMissing(int arr[], int n) {
4     int expected = 1;
5     int i = 0;
6     while (i < n) {
7         if (arr[i] == expected) {
8             ++expected;
9             ++i;
10        } else if (arr[i] > expected) {
11
12            return expected;
13        } else {
14            ++i;
15        }
16    }
17    return expected;
18 }
```

Compiler Resources Compile Log Debug Find Results Close

Debug Add watch Next line Continue Next instruction

Stop Execution View CPU window Into function Skip function Into instruction

Evaluate:

Send command to GDB:

C:/Program Files (x86)/Dev-Cpp/MinGW64/lib/gcc/x86\_64-w64-mingw32/4.9.2/include;C:/Program Files (x86)/Dev-

Line: 4 Col: 24 Sel: 0 Lines: 25 Length: 626 Insert Done parsing in 0.016 seconds

C:\Users\chgan\OneDrive\Sm

Smallest missing element: 2

-----

Process exited after 0.07758 seconds with return value 0

Press any key to continue . . .



C:\Users\chgan\OneDrive\Descending.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9

(globals)

Project Classes Debug Area.cpp Series.cpp Degree.cpp Address.cpp Smallest.cpp Descending.cpp

```
1  #include <iostream>
2  #include <algorithm>
3  #include <vector>
4  using namespace std;
5  int main() {
6      int arr[] = {-45, 78, 23, 89, -90};
7      int n = sizeof(arr) / sizeof(arr[0]);
8      vector<int> vec(arr, arr + n);
9      sort(vec.begin(), vec.end());
10     cout << "Sorted array in non-decreasing order:" << endl;
11     for (int i = 0; i < n; ++i) {
12         cout << vec[i] << " ";
13     }
14     cout << endl;
15     return 0;
16 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

-----

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Descending.exe
- Output Size: 1.87637138366699 MiB
- Compilation Time: 0.38s

Line: 16 Col: 2 Sel: 0 Lines: 16 Length: 427 Insert Done parsing in 0.015 seconds

C:\Users\chgan\OneDrive\De: X + v - □ X

```
Sorted array in non-decreasing order:
-90 -45 23 78 89

-----
Process exited after 0.08889 seconds with return va
lue 0
Press any key to continue . . . |
```

C:\Users\chgan\OneDrive\Vote.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9

(globals)

Project Classes Debug Area.cpp Series.cpp Degree.cpp Address.cpp Smallest.cpp Descending.cpp Vote.cpp

```
1 #include <iostream>
2 int main() {
3     int age;
4     std::cout << "Enter your age: ";
5     std::cin >> age;
6     if (age >= 18) {
7         std::cout << "You are eligible to vote." << std::endl;
8     } else {
9         int years_left = 18 - age;
10        std::cout << "You are not eligible to vote. You will be eligible in " << years_left << " year(s).";
11    }
12    return 0;
13 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

-----

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Vote.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 0.31s

Line: 1 Col: 20 Sel: 0 Lines: 13 Length: 395 Insert Done parsing in 0 seconds

C:\Users\chgan\OneDrive\Vote.exe

```
Enter your age: 17
You are not eligible to vote. You will be eligible
in 1 year(s).

-----
Process exited after 3.009 seconds with return value 0
Press any key to continue . . .
```



C:\Users\chgan\OneDrive\Celsius to Fahrenheit.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9

(globals)

Project Classes Debug Area.cpp Series.cpp Degree.cpp Address.cpp Smallest.cpp Descending.cpp Vote.cpp Celsius to Fahrenheit

```
1 #include <iostream>
2 #include <vector>
3 std::vector<double> convertToFahrenheit(const std::vector<double> &celsius) {
4     std::vector<double> fahrenheit(celsius.size());
5     for (std::size_t i = 0; i < celsius.size(); ++i) {
6         fahrenheit[i] = (celsius[i] * 9.0 / 5.0) + 32.0;
7     }
8     return fahrenheit;
9 }
10 int main() {
11     int n;
12     std::cout << "Enter the number of temperatures: ";
13     std::cin >> n;
14     std::vector<double> celsius(n);
15     std::cout << "Enter the temperatures in Celsius:" << std::endl;
16     for (int i = 0; i < n; ++i) {
17         std::cin >> celsius[i];
18     }
19     std::vector<double> fahrenheit = convertToFahrenheit(celsius);
```

Compiler (1) Resources Compile Log Debug Find Results Close

Line	Col	File	Message
2	18	C:\Users\chgan\OneDrive\Celsius to Fahrenheit.cpp	[Warning] extra tokens at end of #include directive

Line: 2 Col: 19 Sel: 0 Lines: 26 Length: 886 Insert Done parsing in 0 seconds

C:\Users\chgan\OneDrive\Cel

```
Enter the number of temperatures: 2
Enter the temperatures in Celsius:
10
45
Temperatures in Fahrenheit:
50 113
-----
Process exited after 6.385 seconds with return value 0
Press any key to continue . . .
```



C:\Users\chgan\OneDrive\Fibonacci.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9

(globals)

Project Classes Debug Area.cpp Series.cpp Degree.cpp Address.cpp Smallest.cpp Descending.cpp Vote.cpp Celsius to Fahren

```
1 #include <iostream>
2 int fibonacci(int n) {
3     if (n <= 0) return 0;
4     if (n == 1) return 1;
5     int a = 0;
6     int b = 1;
7     int fib = 1;
8     for (int i = 2; i <= n; ++i) {
9         fib = a + b;
10        a = b;
11        b = fib;
12    }
13    return fib;
14 }
15 std::string getOrdinalSuffix(int n) {
16     if (n % 10 == 1 && n % 100 != 11) return "st";
17     if (n % 10 == 2 && n % 100 != 12) return "nd";
18     if (n % 10 == 3 && n % 100 != 13) return "rd";
19     return "th";
20 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

-----

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Fibonacci.exe
- Output Size: 1.83665180206299 MiB
- Compilation Time: 0.31s

Line: 1 Col: 20 Sel: 0 Lines: 28 Length: 728 Insert Done parsing in 0 seconds

C:\Users\chgan\OneDrive\Fib

Enter the value of n: 1  
The 1st Fibonacci number is 1

-----

Process exited after 0.9954 seconds with return value 0  
Press any key to continue . . .



C:\Users\chgan\OneDrive\Pointers.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2

(globals)

Project Classes Debug

Area.cpp Series.cpp Degree.cpp Address.cpp Smallest.cpp  
Descending.cpp Vote.cpp Celsius to Fahrenheit.cpp Fibonacci.cpp Pointers.cpp

```
1 #include <iostream>
2 #include <algorithm>
3 int compare(const void* a, const void* b) {
4     return (*(int*)a - *(int*)b);
5 }
6 int main() {
7     int n;
8     std::cout << "Enter the number of elements: ";
9     std::cin >> n;
10    int* arr = new int[n];
11    std::cout << "Enter the elements:" << std::endl;
12    for (int i = 0; i < n; ++i) {
13        std::cin >> arr[i];
14    }
15    std::qsort(arr, n, sizeof(int), compare);
16    for (int i = 0; i < n; ++i) {
17        std::cout << *(arr + i) << " ";
18    }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Pointers.exe
- Output Size: 1.83330821990967 MiB
- Compilation Time: 0.34s
```

Line: 5 Col: 2 Sel: 0 Lines: 22 Length: 622 Insert Done parsing in 0.015 seconds

C:\Users\chgan\OneDrive\Poi

```
Enter the number of elements: 3
Enter the elements:
33
44
55
Sorted elements:
33 44 55

-----
Process exited after 6.513 seconds with return value 0
Press any key to continue . . .
```



C:\Users\chgan\OneDrive\Uppercase.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9

(globals)

Project Classes Debug Area.cpp Series.cpp Degree.cpp Address.cpp Smallest.cpp Descending.cpp Vote.cpp Celsius to Fahrenheit

```
1 #include <iostream>
2 #include <string>
3 #include <cctype>
4 int countUppercase(const std::string& str) {
5     int count = 0;
6     for (std::size_t i = 0; i < str.size(); ++i) {
7         if (std::isupper(str[i])) {
8             ++count;
9         }
10    }
11    return count;
12 }
13 int main() {
14     // Input string
15     std::string str = "C++ is a Programming Language";
16     int uppercaseCount = countUppercase(str);
17     std::cout << "Number of uppercase alphabets: " << uppercaseCount;
18     return 0;
19 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

-----

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Uppercase.exe
- Output Size: 1.83582210540771 MiB
- Compilation Time: 0.30s

Line: 3 Col: 18 Sel: 0 Lines: 19 Length: 516 Insert Done parsing in 0.016 seconds

C:\Users\chgan\OneDrive\Up

Number of uppercase alphabets: 3

-----

Process exited after 0.08051 seconds with return value 0

Press any key to continue . . .



C:\Users\chgan\OneDrive\Addition of num from 1 to n.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug

Area.cpp Series.cpp Degree.cpp Address.cpp Smallest.cpp Descending.cpp Vote.cpp  
Celsius to Fahrenheit.cpp Fibonacci.cpp Pointers.cpp Uppercase.cpp Addition of num from 1 to n.cpp

```
1  #include <iostream>
2  int main() {
3      int n;
4      int sum = 0;
5      std::cout << "Enter a number: ";
6      std::cin >> n;
7      for (int i = 1; i <= n; ++i) {
8          sum += i;
9      }
10     std::cout << "Sum of numbers from 1 to " << n << " is: ";
11     return 0;
12 }
13
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Addition of num from 1 to n.e
- Output Size: 1.83263969421387 MiB
- Compilation Time: 0.31s
```

Line: 13 Col: 1 Sel: 0 Lines: 13 Length: 288 Insert Done parsing in 0.016 seconds

C:\Users\chgan\OneDrive\Adi

```
Enter a number: 5
Sum of numbers from 1 to 5 is: 15

-----
Process exited after 8.312 seconds with return value 0
Press any key to continue . . .
```



C:\Users\chgan\OneDrive\Reverse of UC.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2

(globals)

Project Classes Debug

Area.cpp Series.cpp Degree.cpp Address.cpp Smallest.cpp Descending.cpp  
Vote.cpp Celsius to Fahrenheit.cpp Fibonacci.cpp Pointers.cpp  
Uppercase.cpp Addition of num from 1 to n.cpp Reverse of UC.cpp

```
1 #include <iostream>
2 #include <string>
3 #include <algorithm>
4 int main() {
5     std::string input;
6     std::cout << "Enter a string: ";
7     std::getline(std::cin, input);
8     std::string uppercaseStr = input;
9     std::transform(uppercaseStr.begin(), uppercaseStr.end(),
10     std::string lowercaseStr = input;
11     std::transform(lowercaseStr.begin(), lowercaseStr.end(),
12     std::string reversedStr = input;
13     std::reverse(reversedStr.begin(), reversedStr.end());
14     std::cout << "Uppercase: " << uppercaseStr << std::endl;
15     std::cout << "Lowercase: " << lowercaseStr << std::endl;
16     std::cout << "Reverse: " << reversedStr << std::endl;
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Reverse of UC.exe
- Output Size: 1.83977699279785 MiB
- Compilation Time: 0.31s
```

Line: 18 Col: 2 Sel: 0 Lines: 19 Length: 744 Insert Done parsing in 0.015 seconds

C:\Users\chgan\OneDrive\Rev

```
Enter a string: Oppenheimer
Uppercase: OPPENHEIMER
Lowercase: oppenheimer
Reverse: remiehnepp0

-----
Process exited after 3.972 seconds with return value 0
Press any key to continue . . .
```



C:\Users\chgan\OneDrive\Area.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug Area.cpp

```
1 #include <iostream>
2 #include <cmath>
3 using namespace std;
4 double perimeter(double a, double b, double c) {
5     return a + b + c;
6 }
7 double area(double a, double b, double c) {
8     double s = perimeter(a, b, c) / 2;
9     return sqrt(s * (s - a) * (s - b) * (s - c));
10 }
11 int main() {
12     double a, b, c;
13     cout << "Enter three sides of the triangle: ";
14     cin >> a >> b >> c;
15     double peri = perimeter(a, b, c);
16     double ar = area(a, b, c);
17     cout << "Perimeter of the triangle: " << peri << endl;
18     cout << "Area of the triangle: " << ar << endl;
19
20     return 0;
}
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Area.exe
- Output Size: 1.8371696472168 MiB
- Compilation Time: 1.45s
```

Line: 16 Col: 31 Sel: 0 Lines: 22 Length: 595 Insert Done pars...

C:\Users\chgan\OneDrive\Area

```
Enter three sides of the triangle: 3
4
5
Perimeter of the triangle: 12
Area of the triangle: 6

-----
Process exited after 8.319 seconds with return value 0
Press any key to continue . . .
```