swap.cpp | pointers 15 c++.cpp | pointers 14 c++.cpp | pointers 13 c++.cpp | pointers 12 c++.cpp | pointers 11
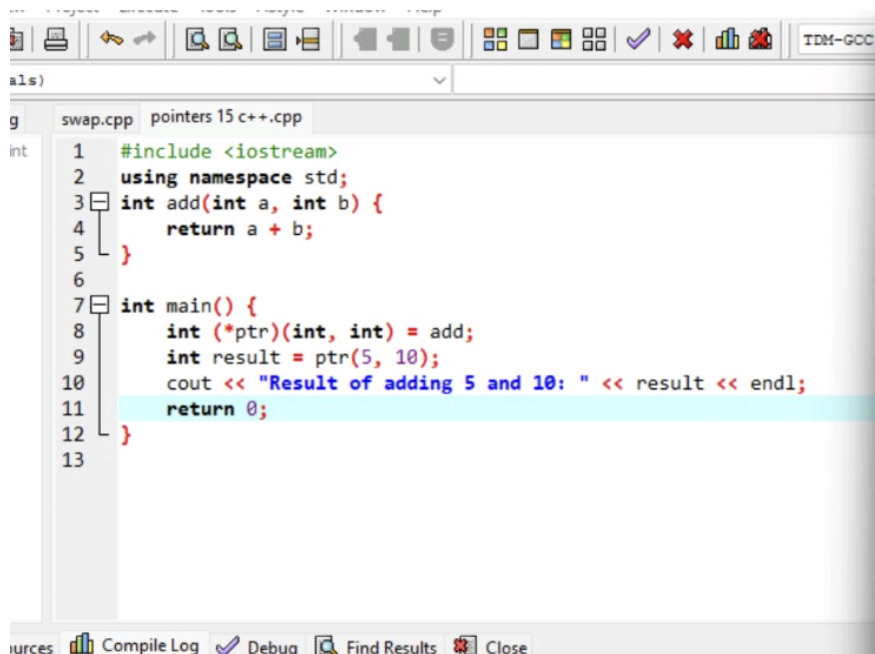
```cpp
1    #include <iostream>
2    using namespace std;
3
4    int main() {
5        int arr[5] = {1, 2, 3, 4, 5};
6        int *ptr = arr;
7        cout << "Values of the array using pointer:" << endl;
8        for (int i = 0; i < 5; i++) {
9            cout << "arr[" << i << "] = " << *(ptr + i) << endl;
10       }
11
12       return 0;
13   }
14
```

C:\Users\Administrator\Doc

```
Values of the array using pointer:
arr[0] = 1
arr[1] = 2
arr[2] = 3
arr[3] = 4
arr[4] = 5

--------------------------------
Process exited after 0.6172 seconds with return
value 0
Press any key to continue . . .
```

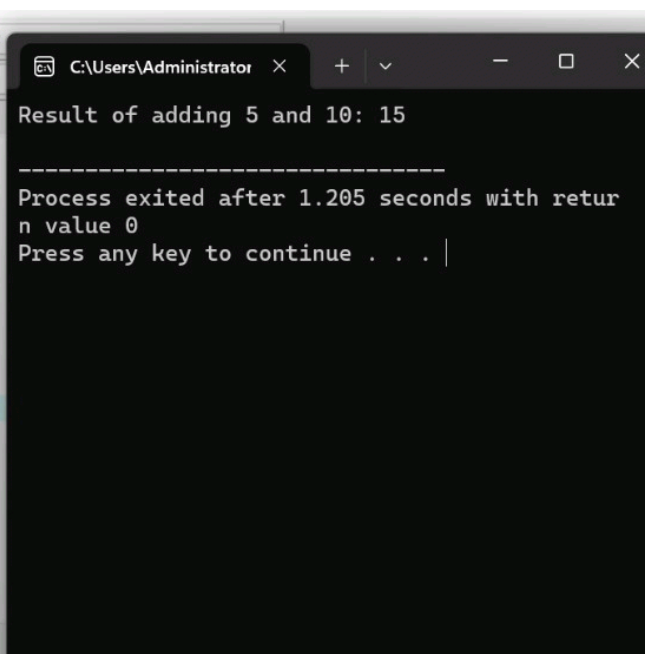Compile Log   Debug   Find Results   Close

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Administrator\Documents\pointers 11 c++.exe
- Output Size: 1.83262825012207 MiB
- Compilation Time: 1.63s
```

```cpp
#include <iostream>
using namespace std;
int add(int a, int b) {
    return a + b;
}

int main() {
    int (*ptr)(int, int) = add;
    int result = ptr(5, 10);
    cout << "Result of adding 5 and 10: " << result << endl;
    return 0;
}
```

swap.cpp | pointers 15 c++.cpp

urces | Compile Log | Debug | Find Results | Close

C:\Users\Administrator

Result of adding 5 and 10: 15

Process exited after 1.205 seconds with return value 0
Press any key to continue . . .

```cpp
#include <iostream>
using namespace std;
class Person {
public:
    string name;
    int age;
    Person(string n, int a) : name(n), age(a) {}
    void display() {
        cout << "Name: " << name << endl;
        cout << "Age: " << age << endl;
    }
};
int main() {
    Person person("Alice", 30);
    Person *ptr = &person;
    cout << "Using pointer:" << endl;
    cout << "Name: " << ptr->name << endl;
    cout << "Age: " << ptr->age << endl;
    cout << "Using pointer to call method:" << endl;
    ptr->display();

    return 0;
}
```

swap.cpp   pointers 15 c++.cpp   pointers 14 c++.cpp

res Compile Log ✓ Debug Find Results Close

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
```

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```
Using pointer:
Name: Alice
Age: 30
Using pointer to call method:
Name: Alice
Age: 30

---------------------------------
Process exited after 0.7164 seconds with return value 0
Press any key to continue . . .
```

```cpp
1    #include <iostream>
2    using namespace std;
3
4    int main() {
5        float arr[5] = {1.1, 2.2, 3.3, 4.4, 5.5};
6        float *ptr = arr;
7        cout << "Values of the array using pointer:" << endl;
8        for (int i = 0; i < 5; i++) {
9            cout << "arr[" << i << "] = " << *(ptr + i) << endl;
10       }
11
12       return 0;
13   }
14
```

Console output:

```
Values of the array using pointer:
arr[0] = 1.1
arr[1] = 2.2
arr[2] = 3.3
arr[3] = 4.4
arr[4] = 5.5

------------------------------------
Process exited after 1.099 seconds with return value
Press any key to continue . . .
```

Compile Log   Debug   Find Results   Close

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Administrator\Documents\pointers 13 c++.exe
- Output Size: 1.83262825012207 MiB
- Compilation Time: 1.67s
```

swap.cpp pointers 15 c++.cpp pointers 14 c++.cpp pointers 13 c++.cpp pointers 12 c++.cpp

```cpp
 1    #include <iostream>
 2    using namespace std;
 3
 4    int main() {
 5        char arr[6] = {'H', 'e', 'l', 'l', 'o', '\0'};
 6        char *ptr = arr;
 7        cout << "Values of the array using pointer:" << endl;
 8        for (int i = 0; i < 6; i++) {
 9            cout << "arr[" << i << "] = " << *(ptr + i) << endl
10        }
11
12        return 0;
13    }
14
```

urces Compile Log Debug Find Results Close

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
```

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```
Values of the array using pointer:
arr[0] = H
arr[1] = e
arr[2] = l
arr[3] = l
arr[4] = o
arr[5] =

---------------------------------
Process exited after 0.7246 seconds with retu
rn value 0
Press any key to continue . . .
```

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

Project   Classes   Debug

pointer integer.cpp

```cpp
1    #include <iostream>
2    using namespace std;
3    int main()
4    {
5        int* ptr;
6        ptr = new int;
7        *ptr = 42;
8        cout << "Value of the integer: " << *ptr << endl;
9        delete ptr;
10       return 0;
11   }
12
```

C:\Users\abhigna\Documents\pointer integer.exe

```
Value of the integer: 42

------------------------------
Process exited after 0.2829 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\abhigna\Documents\pointer integer.exe
- Output Size: 1.83262825012207 MiB
- Compilation Time: 4.66s
```

Line: 10   Col: 1   Sel: 0   Lines: 12   Length: 202   Insert   Done parsing in 2.859 seconds

Type here to search

27°C Partly sunny   ENG   08:42
24-02-2024

C:\Users\abhigna\Documents\pointer float.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug   pointer integer.cpp   pointer float.cpp

```cpp
 1    #include <iostream>
 2    using namespace std;
 3    int main()
 4    {
 5        float* ptr;
 6        ptr = new float;
 7        *ptr = 3.14f;
 8        cout << "Value of the float: " << *ptr << endl;
 9        delete ptr;
10        return 0;
11    }
12
```

C:\Users\abhigna\Documents\pointer float.exe

```
Value of the float: 3.14

------------------------------
Process exited after 0.2226 seconds with return value 0
Press any key to continue . . .
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\abhigna\Documents\pointer float.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 2.84s
```

Line: 8   Col: 47   Sel: 0   Lines: 12   Length: 207   Insert   Done parsing in 0.078 seconds

Type here to search

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

Project   Classes   Debug

pointer integer.cpp   pointer float.cpp   pointer char.cpp   pointer double.cpp   pointer st

```cpp
1  #include <iostream>
2  #include <string>
3  using namespace std;
4  int main()
5  {
6      string* ptr;
7      ptr = new string;
8      *ptr = "Hello, World!";
9      cout << "Value of the string: " << *ptr << endl;
10     delete ptr;
11     return 0;
12 }
13
```

C:\Users\abhigna\Documents\pointer string.exe

```
Value of the string: Hello, World!

-------------------------------
Process exited after 0.1968 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

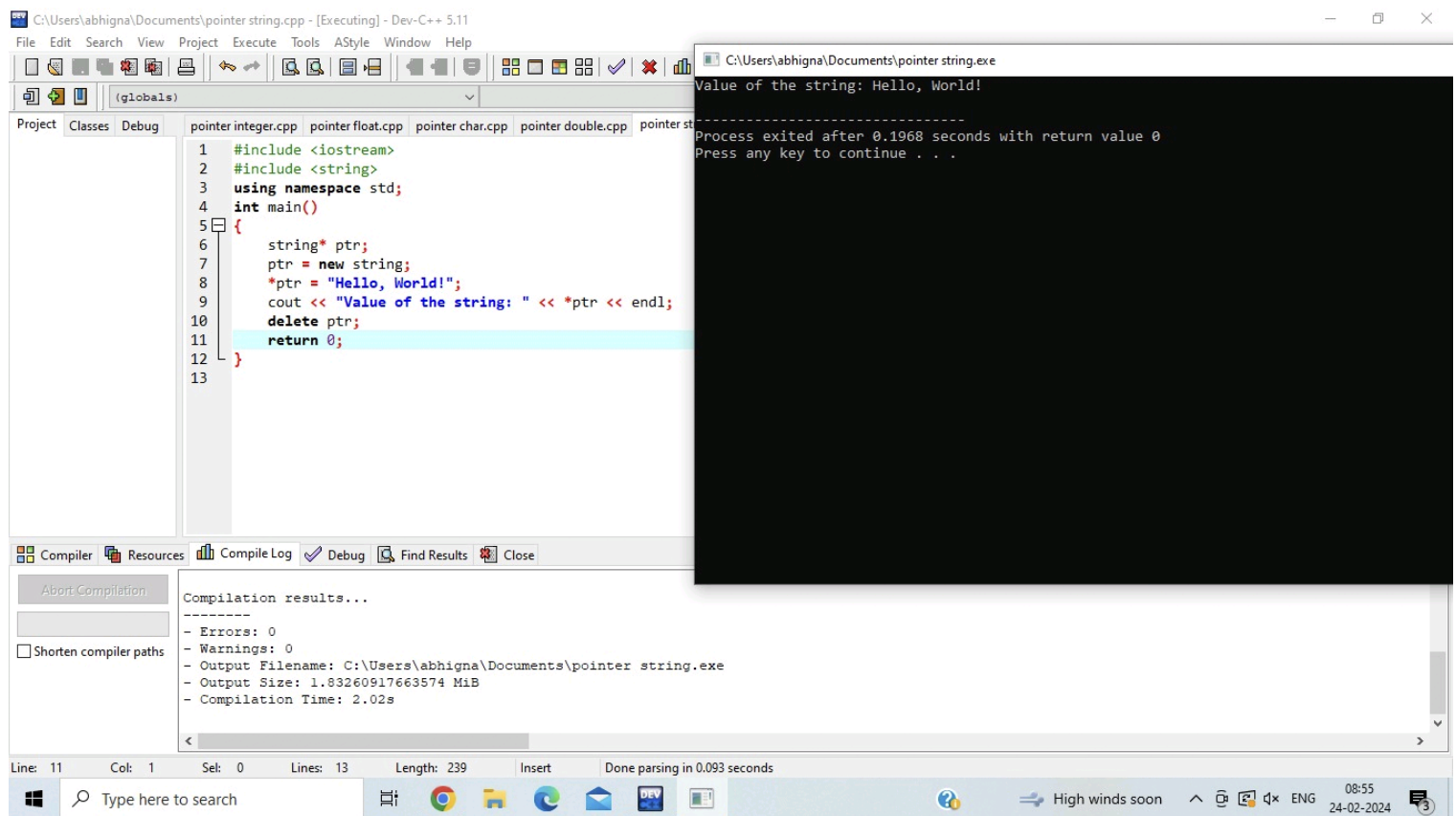Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\abhigna\Documents\pointer string.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 2.02s
```

Line: 11   Col: 1   Sel: 0   Lines: 13   Length: 239   Insert   Done parsing in 0.093 seconds

Type here to search

High winds soon   ENG   08:55   24-02-2024

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

Project   Classes   Debug

pointer integer.cpp   pointer float.cpp   pointer char.cpp   pointer double.cpp

```cpp
1    #include <iostream>
2    using namespace std;
3    int main()
4    {
5        double* ptr;
6        ptr = new double;
7        *ptr = 3.14159;
8        cout << "Value of the double: " << *ptr << endl;
9        delete ptr;
10       return 0;
11   }
12
```

C:\Users\abhigna\Documents\pointer double.exe

```
Value of the double: 3.14159

------------------------------
Process exited after 0.3565 seconds with return value 0
Press any key to continue . . . _
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\abhigna\Documents\pointer double.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 4.13s
```

Line: 10   Col: 1   Sel: 0   Lines: 12   Length: 212   Insert   Done parsing in 0.219 seconds

Type here to search

27°C Partly sunny   ENG   08:53   24-02-2024

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

Project   Classes   Debug   pointer integer.cpp   pointer float.cpp   pointer char.cpp

```cpp
1    #include <iostream>
2    using namespace std;
3    int main()
4  ┌ {
5        char* ptr;
6        ptr = new char;
7        *ptr = 'A';
8        cout << "Value of the char: " << *ptr << endl;
9        delete ptr;
10       return 0;
11 └ }
12
```

```
Value of the char: A

------------------------------
Process exited after 0.3369 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\abhigna\Documents\pointer char.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 3.48s
```

Line: 10   Col: 1   Sel: 0   Lines: 12   Length: 202   Insert   Done parsing in 0.125 seconds

Type here to search

27°C Partly sunny   ENG   08:50   24-02-2024