

main.cpp

Run

Output

Clear

```
1 //10.overload the += operator to add two objects of a user defined class
2 #include <iostream>
3 class MyClass {
4 public:
5     int a, b;
6     MyClass& operator+=(const MyClass& rhs) {
7         a += rhs.a;
8         b += rhs.b;
9         return *this;
10    }
11 };
12 int main() {
13     MyClass obj1, obj2, obj3;
14     obj1.a = 10;
15     obj1.b = 20;
16     obj2.a = 5;
17     obj2.b = 10;
18     obj3 += obj1;
19     obj3 += obj2;
20     std::cout << "obj3.a: " << obj3.a << std::endl;
21     std::cout << "obj3.b: " << obj3.b << std::endl;
22     return 0;
23 }
```

```
/tmp/XnuzMEVlyg.o
obj3.a: 4198575
obj3.b: 30
```

main.cpp




























Run

```
1 //11.overload a function to find the maximum value from two integer numbers
  and two floating point number
2
3 #include <iostream>
4 int findMax(int a, int b) {
5     return (a > b) ? a : b;
6 }
7 double findMax(double a, double b) {
8     return (a > b) ? a : b;
9 }
10 char findMax(char a, char b) {
11     return (a > b) ? a : b;
12 }
13 int main() {
14     int num1 = 10, num2 = 20;
15     double float1 = 5.5, float2 = 3.3;
16     char char1 = 'A', char2 = 'B';
17
18     std::cout << "Maximum of two integers: " << findMax(num1, num2) << std
19     ::endl;
20     std::cout << "Maximum of two floating-point numbers: " << findMax
21     (float1, float2) << std::endl;
22     std::cout << "Maximum of two characters: " << findMax(char1, char2) <<
23     std::endl;
24
25     return 0;
26 }
```



Output

Clear

```
/tmp/XnuzMEVlyg.o
Maximum of two integers: 20
Maximum of two floating-point numbers: 5.5
Maximum of two characters: B
```



main.cpp



Run

```
1 //12.overload a function to concatenate two strings and two characters
   arrays separately
2
3 #include <iostream>
4 #include <string>
5
6 std::string concatenateStrings(const std::string& str1, const std::string&
   str2) {
7     return str1 + str2;
8 }
9
10 std::string concatenateCharArrays(const char* arr1, const char* arr2) {
11     std::string str1(arr1);
12     std::string str2(arr2);
13     return str1 + str2;
14 }
15
16 int main() {
17     std::string str1 = "Hello";
18     std::string str2 = "World";
19
20     std::cout << "Concatenated String (1): " << concatenateStrings(str1,
21     str2) << std::endl;
22     char arr1[] = "C++";
23     char arr2[] = "Programming";
24     std::cout << "Concatenated String (2): " << concatenateCharArrays(arr1,
25     arr2) << std::endl;
26
27     return 0;
28 }
```

Output

Clear

```
/tmp/XnuzMEVlyg.o
Concatenated String (1): HelloWorld
Concatenated String (2): C++Programming
```