

Microsoft Windows [Version 10.0.18363.1440]

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C:\Users\Ayush Raj>cd C:\Users\Ayush Raj\Desktop\c++cipher\cpp\_assignment

C:\Users\Ayush Raj\Desktop\c++cipher\cpp\_assignment>g++ armstrong.cpp

C:\Users\Ayush Raj\Desktop\c++cipher\cpp\_assignment>a

Enter an integer: 22

22 is not an Armstrong number.

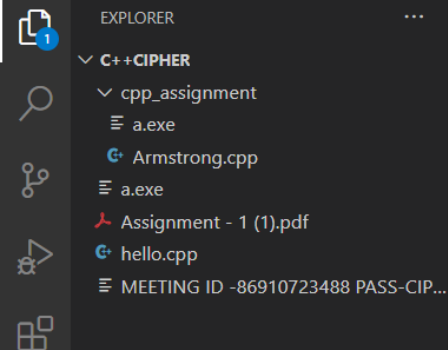
C:\Users\Ayush Raj\Desktop\c++cipher\cpp\_assignment>g++ armstrong.cpp

C:\Users\Ayush Raj\Desktop\c++cipher\cpp\_assignment>a

Enter an integer: 371

371 is an Armstrong number.

C:\Users\Ayush Raj\Desktop\c++cipher\cpp\_assignment>\_



```
cpp_assignment > Armstrong.cpp > main()
1
2  #include <cmath>
3  #include <iostream>
4
5  using namespace std;
6
7  int main() {
8      int num, originalNum, remainder, n = 0, result = 0, power;
9      cout << "Enter an integer: ";
10     cin >> num;
11
12     originalNum = num;
13
14     while (originalNum != 0) {
15         originalNum /= 10;
16         ++n;
17     }
18     originalNum = num;
19
20     while (originalNum != 0) {
21         remainder = originalNum % 10;
22         power = round(pow(remainder, n));
23         result += power;
24         originalNum /= 10;
25     }
26
27     if (result == num)
28         cout << num << " is an Armstrong number.";
29     else
30         cout << num << " is not an Armstrong number.";
31     return 0;
32 }
```

