

1. This problem requires me to create a function that prints numbers from 1 to n. If a number is a multiple of 3, print 'Fizz.' If a number is a multiple of 5, print 'Buzz.' If the number is a multiple of 3 and 5, print FizzBuzz.
2. My solution to this problem is to use the modulus operator to compare the remainder to zero. If n is divided by 3 and the remainder is zero, then n is a multiple of 3, and the same when divided by 5.
3. My non-AI attempt involved a series of if-else if statements within a for loop, iterating from 1 to n. First, I checked if the number was both a multiple of 3 and 5; then, I checked if it was a multiple of 3; and finally, I checked if it was a multiple of 5. If neither, then print the number and proceed to the following number.
4. My first attempt was successful, so AI was not necessary.
5. Since an input was provided, I didn't plan on doing much testing except for the number 15. Out of curiosity, I decided to test a negative number to confirm that the program would not run if a negative number is input and n = 75. I also noticed that in my test, VS Code indicates there are two authors, which is likely a syncing issue. The code is from my GitHub, jimmyjohn23.

ECGR-3180

class1.md fizz.cpp U X Settings

Homework > fizz.cpp > main()

```
1 #include <iostream>
2 using namespace std;
3
4 void fizzbuzz(int n) {
5     for (int i = 1; i <= n; ++i) {
6         if (i % 3 == 0 && i % 5 == 0) {
7             cout << "FizzBuzz" << endl;
8         } else if (i % 3 == 0) {
9             cout << "Fizz" << endl;
10        } else if (i % 5 == 0) {
11            cout << "Buzz" << endl;
12        } else {
13            cout << i << endl;
14        }
15    }
16 }
17
18 int main() {
19     fizzbuzz(15);
20     return 0;
21 }
22
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS zsh - Home

```
Buzz
Fizz
7
8
Fizz
Buzz
11
Fizz
13
14
FizzBuzz
→ Homework git:(main) x
```

< main* 0 0 Ln 20, Col 14 Spaces: 4 UT

```
File Edit Selection View Go ...
fizz.cpp M X
Homework > fizz.cpp > main()
You, 1 second ago | 2 authors (Jimmyjohn23 and one other)
1 #include <iostream>
2 using namespace std;
3
4 void fizzbuzz(int n) {
5     for (int i = 1; i <= n; i++) {
6         if (i % 3 == 0 && i % 5 == 0) {
7             cout << "FizzBuzz" << endl;
8         } else if (i % 3 == 0) {
9             cout << "Fizz" << endl;
10        } else if (i % 5 == 0) {
11            cout << "Buzz" << endl;
12        } else {
13            cout << i << endl;
14        }
15    }
16 }
17
18 int main() {
19     fizzbuzz(-15);
20     return 0;
21 }
22
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

```
→ ECGR-3180 git:(main) x ls
Homework notes README.md
→ ECGR-3180 git:(main) x cd Homework
→ Homework git:(main) x ls
Bank fizzbuzz.png fizz.cpp Score test
→ Homework git:(main) x g++ fizz.cpp -o test
→ Homework git:(main) x ./test
→ Homework git:(main) x
```

< main*+! 11 11 Launchpad 0 0

```
File Edit Selection View Go Run Terminal Help
ECCR-3180

fizz.cpp M x
Homework > fizz.cpp > main()
You, 1 second ago | 2 authors (Jimmyjohn23 and one other)
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11            cout << "Buzz" << endl;
12        } else {
13            cout << i << endl;
14        }
15    }
16 }
17
18 int main() {
19     fizzbuzz(75);    You, 1 second ago • Uncommitted changes
20     return 0;
21 }
22

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS
zsh - Homework + - - - - - x
61
62
Fizz
64
Buzz
Fizz
67
68
Fizz
Buzz
71
Fizz
73
74
FizzBuzz
→ Homework git:(main) x
main*+ 1.1 1 Launchpad You, 1 second ago Ln 19, Col 15 Spaces: 4 UTF-8 LF C++ Linux Prettier
```