

Philip Pesic

Week 3

September 4 2022

Week 3 Prog 3

Write program using two(2) nested 'for' loops to print out the values of a Multiplication Table 12 By 12. Output should look like Table: 12 columns and 12 rows. See example 4 above for nesting a for loop in a for loop. Make it look lined up... Hint: Use the setw() function.

```
#include <iostream>
```

```
#include <iomanip>
```

```
int main() {
```

```
    for(int multiplier = 1; multiplier <=12; multiplier++) {
```

```
        for(int counter = 1; counter <= 12; counter++){
```

```
            cout << setw(5);
```

```
            cout << multiplier * counter << " ";
```

```
        }
```

```
        cout << endl;    }
```

```
    cout << "Philip Pesic 9/4/22" << endl;
```

```
    return 0;
```

```
}
```

Philip Pestic

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The screenshot shows a C++ IDE with a file named 'main.cpp' open. The code is a C++ program that prints a 12x12 multiplication table. The code is as follows:

```
1 //  
2 // main.cpp  
3 // Week 3 Prog 3  
4 //  
5 // Created by Pippo Pestic on 9/4/22.  
6 //  
7  
8 #include <iostream>  
9 #include <iomanip>  
10 using namespace std;  
11 int main() {  
12     for (int multiplier = 1; multiplier <= 12; multiplier++) {  
13         for (int counter = 1; counter <= 12; counter++) {  
14             cout << setw(5);  
15             cout << multiplier * counter << " ";  
16             cout << endl; }  
17     cout << "Philip Pestic 9/4/22" << endl; return 0;  
18 }  
19 |
```

The output of the program is a 12x12 multiplication table, displayed in a grid format. The table is as follows:

1	2	3	4	5	6	7	8	9	10	11	12
2	4	6	8	10	12	14	16	18	20	22	24
3	6	9	12	15	18	21	24	27	30	33	36
4	8	12	16	20	24	28	32	36	40	44	48
5	10	15	20	25	30	35	40	45	50	55	60
6	12	18	24	30	36	42	48	54	60	66	72
7	14	21	28	35	42	49	56	63	70	77	84
8	16	24	32	40	48	56	64	72	80	88	96
9	18	27	36	45	54	63	72	81	90	99	108
10	20	30	40	50	60	70	80	90	100	110	120
11	22	33	44	55	66	77	88	99	110	121	132
12	24	36	48	60	72	84	96	108	120	132	144

Philip Pestic 9/4/22
Program ended with exit code: 0

I learned how to write nested for loops