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1.C++ Assignments | Loops-2 | Week 3
Predict the output
#include <bits/stdc++.h>
using namespace std;
int main() {
while ('1' < '2')
cout << "In while loop" << endl;

    Output will be:-In while loop

2.Predict the output
#include <bits/stdc++.h>
using namespace std;
int main() {
int t = 10;
while (t \neq 2) {
cout << "Hello" << endl;
}
  Output will be:-

    Hello

   Hello

    Hello

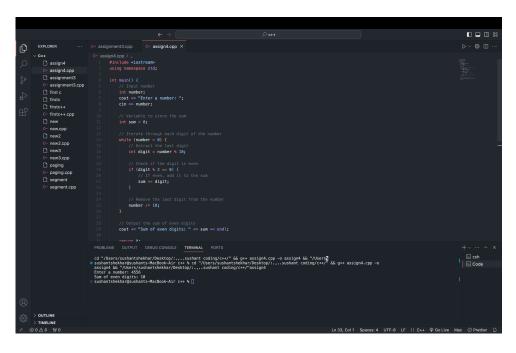
3.Predict the output
#include <bits/stdc++.h>
using namespace std;
int main() {
for (int x = 1; x * x <= 10; x++)
cout << "In for loop" << endl;
}
   Output will be:
  In for loop
In for loop
In for loop
4.Predict the output
#include <bits/stdc++.h>
using namespace std;
int main() {
int x = 10, y = 0;
while (x >= y)
x--;
y++;
cout << x << " " << y << endl;
Output will be:
```

73 64

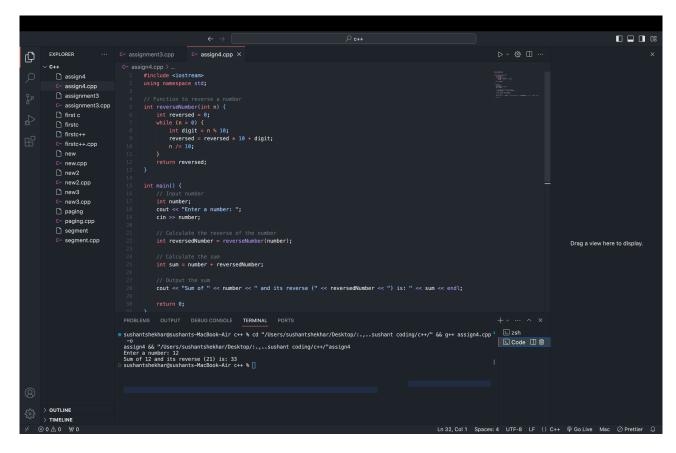
55

## 5.WAP TO PRINT THE SUM OF ALL THE EVEN DIGITS OF A GIVEN NUMBER. SAMPLE INPUT: 4556

**OUTPUT: 10** 



## 6.WAP TO PRINT THE SUM OF A GIVEN NUMBER AND ITS REVERSE. SAMPLE INPUT: 12



**SAMPLE OUTPUT: 33 [12+21]** 

## Loop 2 assignment-pw skill's

## 7.PRINT THE FACTORIALS OF FIRST 'N' NUMBERS SAMPLE INPUT: 10

**OUTPUT:** 

1

2

24

120

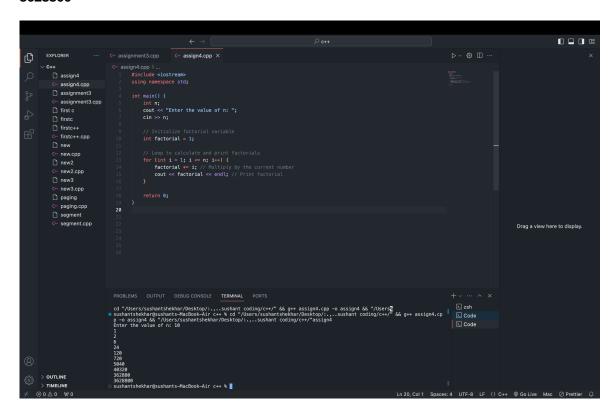
720

5040

40320

362880

3628800



8.PRINT FIRST 'N' FIBONACCI NUMBERS. SAMPLE INPUT: 10 OUTPUT:

1 1 2 3 5 8 13 21 34 55



9.WRITE A PROGRAM TO PRINT OUT ALL ARMSTRONG NUMBERS BETWEEN 1 AND 500. IF THE SUM OF CUBES OF

EACH DIGIT OF THE NUMBER IS EQUAL TO THE NUMBER ITSELF, THEN THE NUMBER IS CALLED AN ARMSTRONG

NUMBER. FOR EXAMPLE, 153 = (1 \* 1 \* 1) + (5 \* 5 \* 5) + (3 \* 3 \* 3) OUTPUT:

1

153

370

371

407

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<sub>C</sub>
            EXPLORER
                                                                 // Function to check if a number is Armstrong
bool isArmstrong(int num) {
   int originalNum = num;
   int sum = 0;
                assign4.cpp
assignment3
                □ assignment3

C+ assignment3.cpp
□ first c
□ firstc
□ firstc++
                                                                         // Calculate sum of cubes of each digit
while (num != 0) {
   int digit = num % 10;
   sum *= digit * digit * digit;
   num /= 10;
                    firstc++.cpp
                  C++ new.cpp
                  C++ new2.cpp
                C++ new3.cpp
                segment
segment.cpp
                                                                                                                                                                                                                                                                                                                                        • sushantshekhar@sushants-MacBook-Air c++ % cd "/Users/sushantshekhar/Desktop/:....sushan
t coding/c++/" &6 g++ assign4.cpp -o assign4 &6 "/Users/sushantshekhar/Desktop/:....sus
hant coding/c++/"assign4
Armstrong numbers between 1 and 500:
                                                      > OUTLINE
```