

Computer Programming Lab Manuel4 home tasks

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1. Write a program in C++ that prints the numbers from 1 to 150 except the multiples of 10. Make use of the continue statement.

```
#include <iostream>
using namespace std;

int main () {
   for (int i=1; i<=150; i++) {
      if (i % 10 == 0) {
         continue;
      }
      cout << i << " ";
   }

   return 0;
}</pre>
```

```
/tmp/eNp3ok6aH0.o

1 2 3 4 5 6 7 8 9 11 12 13 14 15 16 17 18 19 21 22 23 24 25 26 27 28 29 31 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47 48 49 51 52 53 54 55 56 57 58 59 61 62 63 64 65 66 67 68 69 71 72 73 74 75 76 77 78 79 81 82 83 84 85 86 87 88 89 91 92 93 94 95 96 97 98 99 101 102 103 104 105 106 107 108 109 111 112 113 114 115 116 117 118 119 121 122 123 124 125 126 127 128 129 131 132 133 134 135 136 137 138 139 141 142 143 144 145 146 147 148 149
```

2. Write a C++ program to find the sum of digits of a number.

The sum of digits means adding all the digits of any number, for example, we take any number like 358. Its sum of all digits is 3+5+8=16.

```
#include <iostream>
using namespace std;
int main() {
  int num;
  int sum = 0;
  cout << "Enter a number: "; //input</pre>
  cin >> num;
  // while loop
  while (num > 0) {
    int digit = num % 10;
    sum += digit;
    num /= 10;
  }
  // output
  cout << "The sum of the digits is: " << sum << endl;</pre>
  return 0;
}
               C:\Users\LENOVO\m4h2\cmake-build-debug\m4h2.exe
               Enter a number: 123
                The sum of the digits is: 6
               Process finished with exit code 0
         (D)
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   2
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    လူ
    m4h2 > C main.cpp
                                      Accessibility: Investigate
   298 words
                  English (United States)
```

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3. Write a program in C++ to check whether a number is prime or not. #include <iostream> using namespace std; int main () { int n; int count = 0; cout << "Enter a positive number: "; cin >> n; if (n <= 1) { cout << "Prime numbers are greater than 1." << endl;</pre> } else { for (int i = 2; $i \le n$; i++) { if $(n \% i == 0) {$ count++; } } if (count == 1) { cout << n << " is a prime number." << endl;</pre> } else { cout << n << " is not a prime number." << endl;</pre> } }

return 0;

}

