FUNDAMENTALS OF PROGRAMMING

ASSIGNMENT:4

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HOME ASSIGNMENT

Task 1

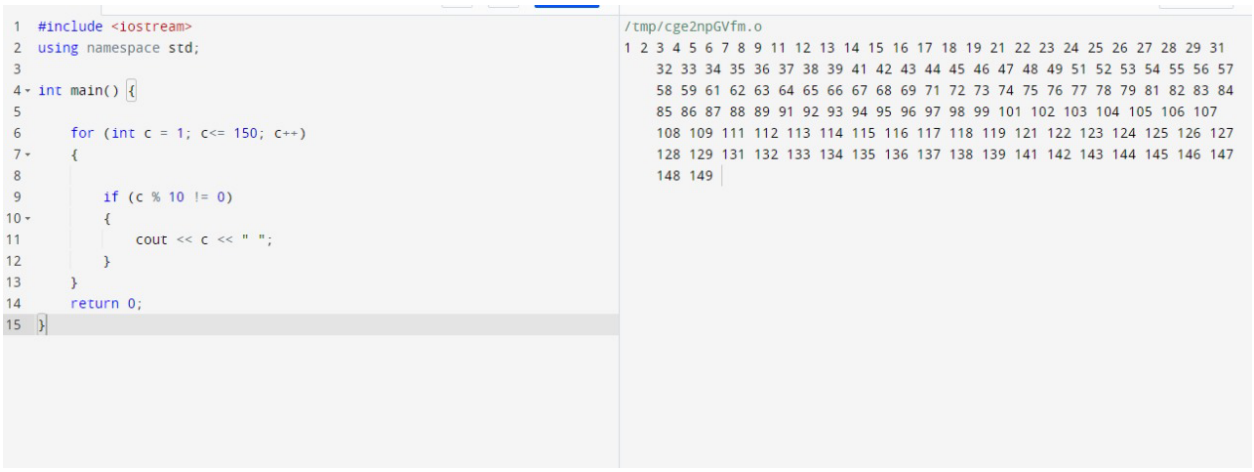
```
#include <iostream>

using namespace std;


int main() {


   for (int c = 1; c<= 150; c++)
   {


      if (c % 10 != 0)
      {
         cout << c << " ";
      }
   }
   return 0;
}
```



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            cout << c << " ";
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```

```
/tmp/cge2npGVfm.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
```

Task 2

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

int main() {

    int num, sum = 0;



    cout << "Enter a number: ";
    cin >> num;

     while (num > 0) {
      int digit = num % 10;
      sum += digit;
      num /= 10;
    }

    cout << "The sum of the digits is: " << sum << endl;

    return 0;
}
```

Task 3

```
#include <iostream>

using namespace std;

int main() {
    int num;
    cout << "Enter a positive integer: ";
    cin >> num;

    if (num <= 1) {
        cout << num << " is not a prime number." << endl;
    } else {
        int b;
        for (b = 2; b * b <= num; b++) {
            if (num % b == 0) {
```

```
            cout << num << " is not a prime number." << endl;
            break;
        }
    }

    if (b * b > num) {
        cout << num << " is a prime number." << endl;
    }
}

    return 0;
}
```