

Fundamentals of Programming

Home Task: 4

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Task:1

Code:

```
#include <iostream>

using namespace std;

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

        cout << f << endl;
    }

    return 0;
}
```

Output:

```
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
```

Task: 2

Code:

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

int
main ()
{
    int num, sum, digit;
    cout << "Enter any Number" << endl;
    cin >> num;

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

    }

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

    return 0;
}
```

Output:

```
Enter any Number
456
The Sum of the digits of given number is: 15
```

Task: 3

Code:

```
#include <iostream>
#include <cmath>
using namespace std;
int main() {
    int number;
    bool isprime = false;
    cout<<"Enter the number"<<endl;
    cin>>number;

    for(int i=2;i<number;i++)
    {

        if(number%i == 0)
        {
            isprime = false;
            break;
        }
        else {
            isprime= true;
            continue;
        }
    }

    if (isprime==true)
    cout<<"It is a prime number"<<endl;
    else if(isprime==false)
    cout<<"It is NOT a prime Number"<<endl;


    return 0;
}
```

Output:

| | |
|---|--|
| Enter the number 566 It is NOT a prime Number | Enter the number 29 It is a prime number |
|---|--|