

Lab Manual 4

Submitted by: Ali Rehman Qureshi

Class: ME-15(C)

ID: 459203

Home Task

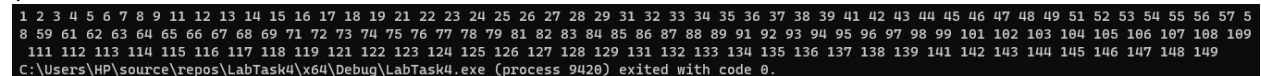
Task 1:

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;
}
```



Task 2:

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

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

int main()
{
    int num = 0;
    int result = 0;
    int ans = 0;
    cout << "Enter a number" << endl;
    cin >> num;
    while (!(num/1==0)) {
        ans = num % 10;
        result += ans;
        num = num / 10;
    }
    cout << "The sum is " << result << endl;
    return 0;
}
```

```
Microsoft Visual Studio Debug Console
Enter a number
459
The sum is 18

C:\Users\HP\source\repos\LabTask4\x64\Debug\LabTask4.exe (process 7600) exited with code 0.
Press any key to close this window . . .
```

Task 3:

Write a program in C++ to check whether a number is prime or not.

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

int main()
{
    int num = 0;
    bool isPrime = true;
    cout << "Enter a number" << endl;
    cin >> num;
    int i = num-1;
    while (i > 0) {
        if (num % i == 0 && i != 1) {
            isPrime = false;
        }
        i -= 1;
    }
    if (isPrime == false) {
        cout << "The number is not a prime number";
    }
    else {
        cout << "The number is a prime number";
    }
    return 0;
}
```

```
Microsoft Visual Studio Debug Console
Enter a number
97
The number is a prime number

C:\Users\HP\source\repos\LabTask4\x64\Debug\LabTask4.exe (process 8056) exited with code 0.
Press any key to close this window . . .
```