HOME TASK

C++ PROGRAMMING

PREPARED BY:

TALHA SHAH

461075

ME-15 A

INSTRUCTOR:

MR AFFAN

TASK:01

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

```cpp
#include<iostream>
using namespace std;
int main()
{
    /*------------------------
    *printing number between 1 and 150 except multiple of 10
    */
    //using for loop
    for(int i=1;i<=150;i++)
    {
        // condition for multiple of 10
        if(i%10==0){
            continue;
        }
        else{
        }
        //get output as number sequence excepy multiple of 10
        cout<<i<<endl;
    }return 0;
    //end program
```
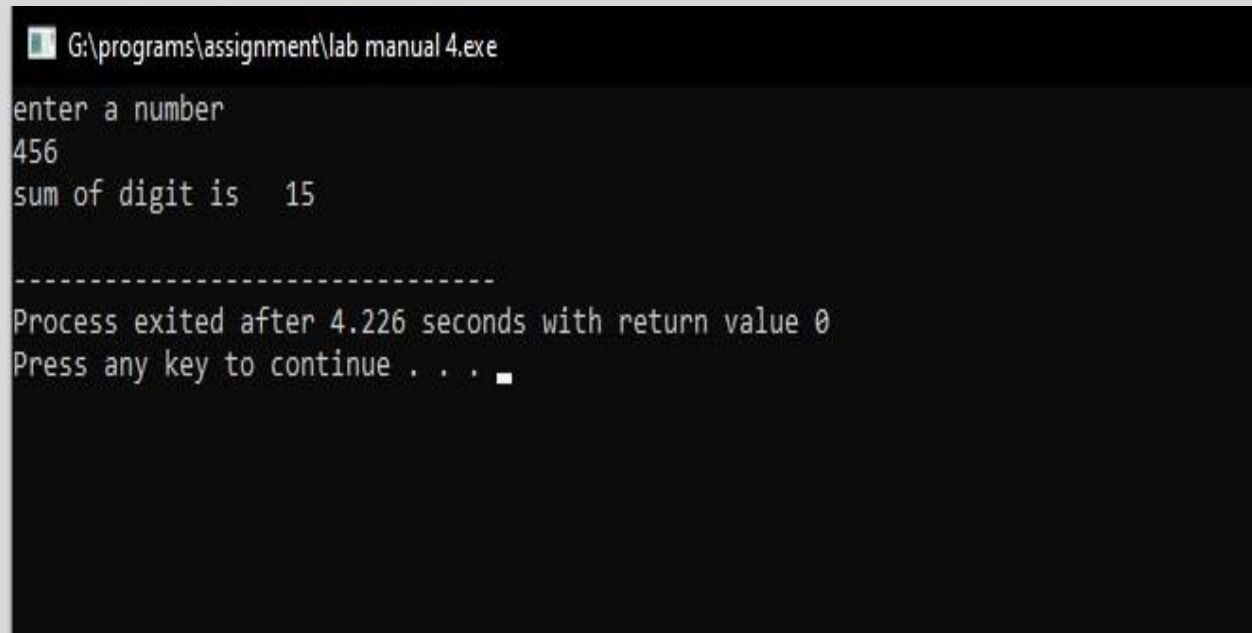
```
G:\programs\assignment\lab manual 4.exe
1
2
3
4
5
6
7
8
9
11
12
13
14
15
16
17
18
19
21
22
23
24
25
26
27
28
29
31
32
33
```

TASK:02

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

```cpp
/*------------------------------
*program to find sum of digits of number----
*/
// we declare number and sum
int number,sum=0;
//enter a number
cout<<"enter a number"<<endl;
cin>>number;
// using while loop
while(number!=0){
    int digit=number%10;
    sum+=digit;
    number/=10;
}
// gets cout
cout<<"sum of digit is   "<<sum<<endl;
//end program
```

```
G:\programs\assignment\lab manual 4.exe

enter a number
456
sum of digit is   15

---------------------------------
Process exited after 4.226 seconds with return value 0
Press any key to continue . . .
```

TASK:03

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

```cpp
/*------------------------------------
* program to check whether number is prime or not
*/
#include <iostream>
using namespace std;
//using boolean function
bool isPrime(int num) {
    if (num <= 1)
    //if number is less then 1 or equal to one it gets false
    {
        return false;
    }
    //condition for prime number
    for (int i = 2; i <= num / 2; i++) {
        if (num % i == 0) {
            return false;
        }
    }
    return true;
}
int main() {
    int number;
    // give an input number
    cout << "Enter a number: ";
    cin >> number;
    //using if else condition
    if (isPrime(number)) {
        cout << number << " is a prime number.";
    } else {
        cout << number << " is not a prime number.";
    }
    return 0;
}
//end program
```

```
C:\Users\Dell\Desktop\lllll.exe

Enter a number: 7
7 is a prime number.
-------------------------------
Process exited after 7.204 seconds with return value 0
Press any key to continue . . . _
```