NUST
NATIONAL UNIVERSITY
OF SCIENCES & TECHNOLOGY

LAB MANUAL 04

HOME TASKS

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Q 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.

CODE:

```
#include<iostream>
using namespace std;
int main() {
	int i;
	for(i=1;i<=150;i++) {
		if(i%10==0){
			continue;
		}
		cout<<i<<",";
	}
	return 0;
}
```

RESULT:

```
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,
--------------------------------
Process exited after 0.1489 seconds with return value 0
Press any key to continue . . .
```

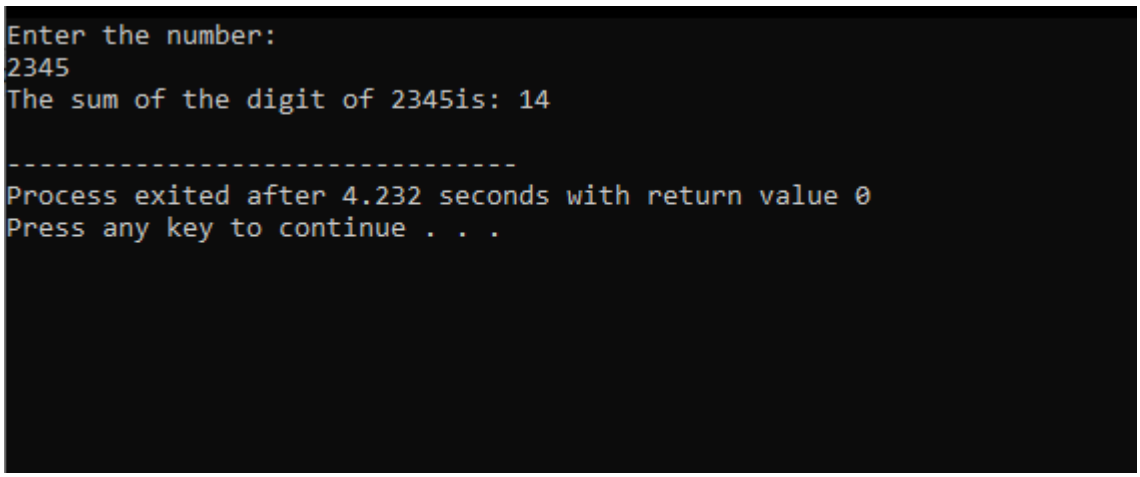
Q 02 Write a C++ program to find the sum of digits of a number. The sum of digits means adding all the digits of any number, for example, we take any number like 358. Its sum of all digits is 3+5+8=16.

CODE:

```
#include<iostream>
using namespace std;
int main() {
```

```
    int number,numberoriginal,remainder,result;
    cout<<"Enter the number: "<<endl;
    cin>>number;
    numberoriginal=number;
    while(number>0){
        remainder=number%10;
        result += remainder;
    number=number/10;
    }
    cout<<"The sum of the digit of "<<numberoriginal<<"is: "<<result<<endl;
    return 0;
}
```

RESULT:



Q 03 Write a program in C++ to check whether a number is prime or not.

CODE:

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

int main() {
```

```
int number,i;
cout << "Enter a positive integer: ";
cin >> number;
   for ( i = 2; i * i <= number; i++) {
      if (number % i == 0) {
         cout<<"Entered number is not a prime number";
         break;
      }
   }
   if (i*i>number) {
      cout<<number<< " is a prime number." <<endl;
   }
            return 0;

}
```

RESULT: