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()
{int num;
num=0;
    while(num<=150){
            if(num%10==0){
                    num++;
                continue;
            }
            cout<<num<<endl;
        num++;


    }



    return 0;
}
```

```
1
2
3
4
5
6
7
8
9
11
12
13
14
15
16
17
18
19
21
22
23
```

2. 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.

```cpp
#include <iostream>

using namespace std;

int main()
{int num,sum,rand;
sum=0;
    cout << "input your number" << endl;
    cin>>num;
    while(num>0){
        rand=num%10;
    sum=sum+rand;
    num=num/10;




    }
    cout <<"your sum is "<< sum << endl;

    return 0;
}
```

```
input your number
247
your sum is 13

Process returned 0 (0x0)   execution time : 2.955 s
Press any key to continue.
```

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

```
using namespace std;

int main()
{int input;
int i=2;
     cout << "enter your number" << endl;
     cin>>input;
     if(input<=1){
     cout<<"it is not a prime number"<<endl;



     }
     else{

      while(i<input){
         if(input%i==0){
        cout<<"it is not a prime number"<<endl;
             break;
         }
        i++;
      }
      if(i==input){
     cout<<"it is a prime number"<<endl;
      }


     }

     return 0;
```

```
enter your number
29
it is a prime number

Process returned 0 (0x0)   execution time : 2.408 s
Press any key to continue.
```