

Computer Systems & Programming

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Home Task Submission

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ME-15-C

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Home Task#1: Write a program in C++ that prints the numbers from 1 to 150 except the multiples of 10.

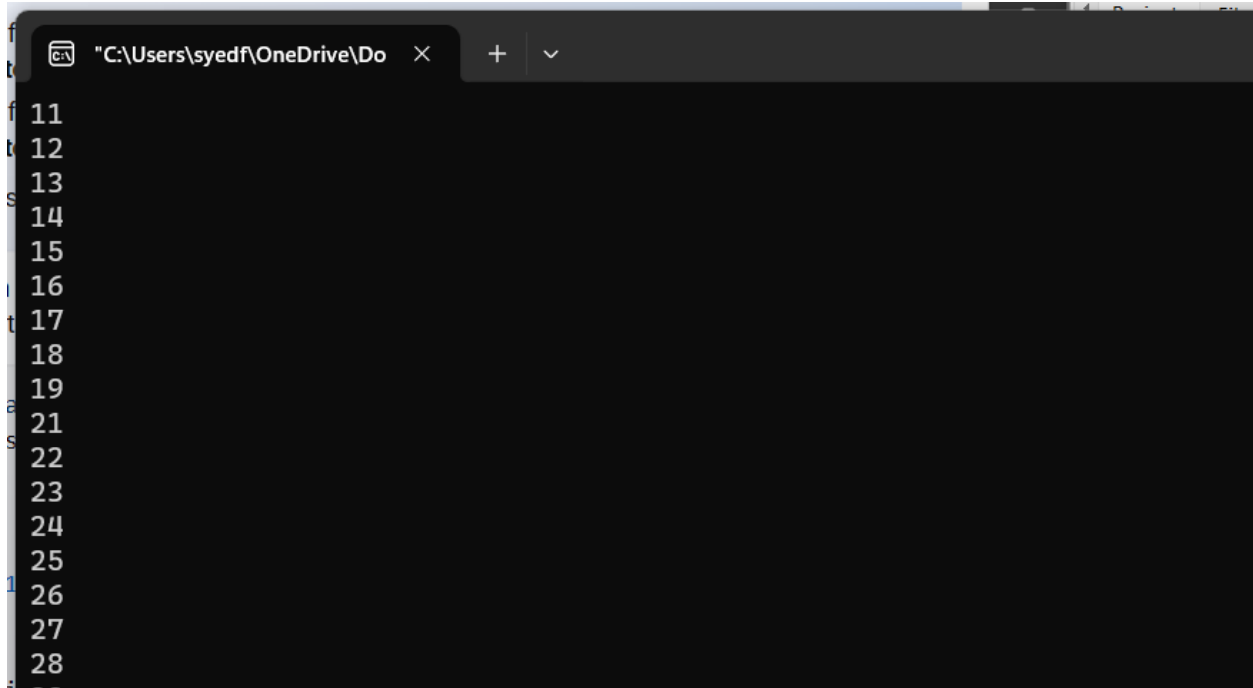
Make use of the continue statement.

Answer:

```
#include <iostream>
```

```
using namespace std;
```

```
int main() {  
    for (int i = 1; i <= 150; i++) {  
        if (i % 10 == 0) {  
            goto skip;  
        }  
        cout << i << " ";  
        skip::  
    }  
    return 0;  
}
```



Home Task# 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 $3+5+8=16$.

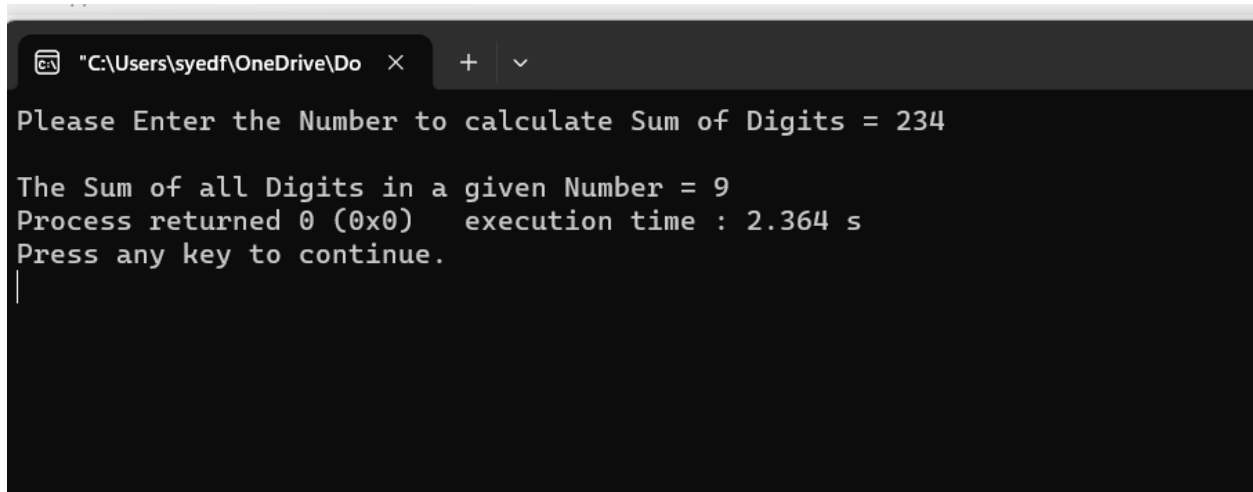
Answer:

```
#include<iostream>
using namespace std;
int main () {
int i, j,k = 0;
cout << "Please Enter the Number to calculate Sum of Digits = ";
cin >> i;
while (i > 0) {
j = i % 10;
k += j;
i = i / 10;
```

```

}
cout << "\nThe Sum of all Digits in a given Number = " << k;
return 0;
}

```



```

C:\Users\syedf\OneDrive\Do  ×  +  v
Please Enter the Number to calculate Sum of Digits = 234

The Sum of all Digits in a given Number = 9
Process returned 0 (0x0)   execution time : 2.364 s
Press any key to continue.
|

```

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

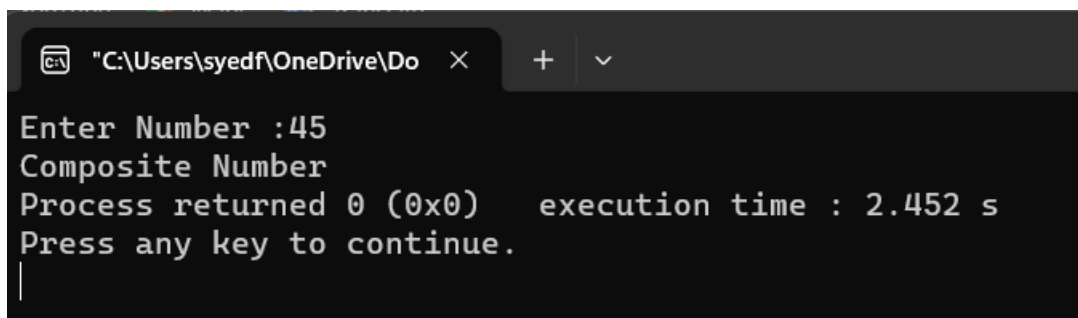
Answer:

```

#include <iostream>
using namespace std;
int main()
{
    int i,n;
    cout<<"Enter a Number :";
    cin>>n;
    for(i=2;i<=n-1;i++)

```

```
{  
if (n%i==0)  
{  
break;  
}  
}  
if(n==i)  
{  
cout<<"Prime Number ";  
}  
else  
{  
cout<<"Composite Number ";  
}  
return 0;  
}
```



```
C:\Users\syedf\OneDrive\Do × + v  
Enter Number :45  
Composite Number  
Process returned 0 (0x0) execution time : 2.452 s  
Press any key to continue.  
|
```