

LAB Manual #04

Lab Tasks

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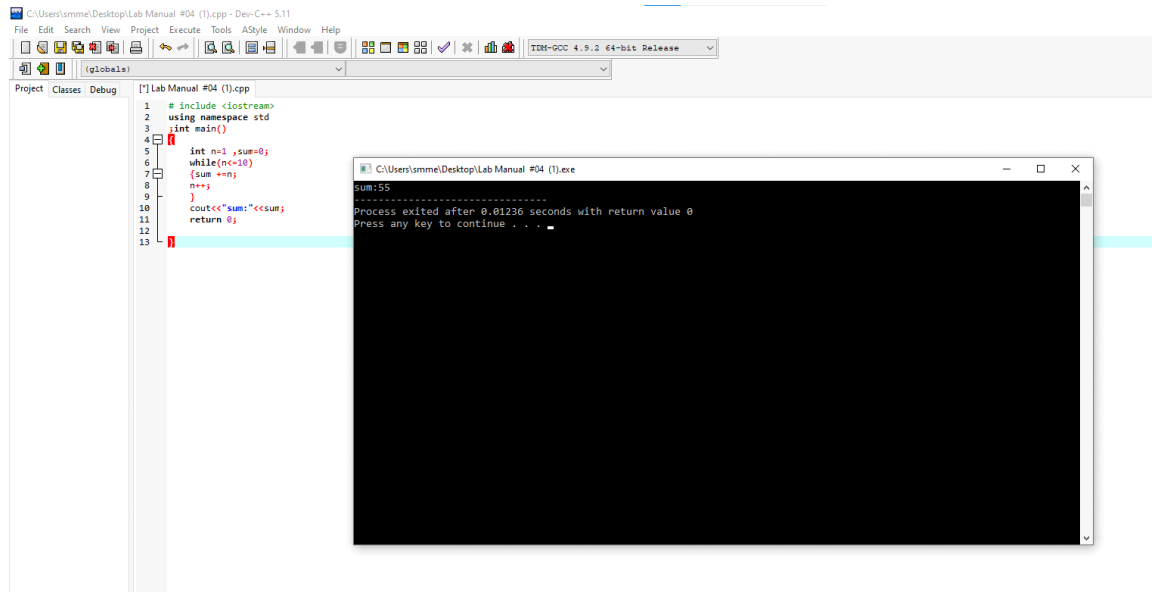
Task 1

```
#include <iostream>

using namespace std;

int main()
{
    int n=1 ,sum=0;
    while(n<=10)
    {sum +=n;
    n++;
    }
    cout<<"sum:"<<sum;
    return 0;
}
```

Output



Task 3

```
#include <iostream>
```

```
using namespace std;
```

```
int main(){
```

```
int num;
```

```
int f;
```

```
cout<<"Enter the number you want factorial of" << endl;
```

```
cin>> num;
```

```
for (int i=num-1;i>0; i--) {
```

```
f = num*i;
```

```
num= f;
```

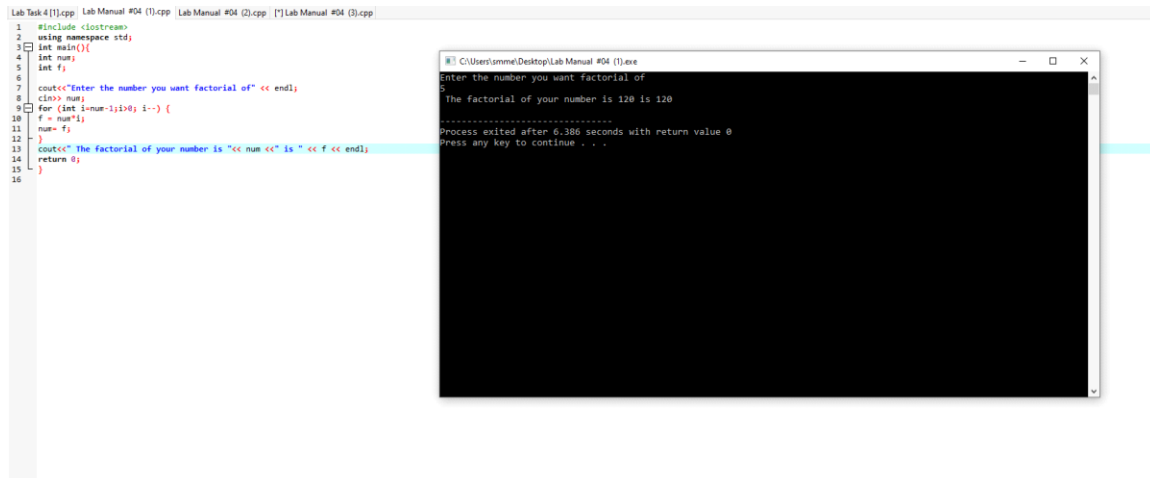
```
}
```

```
cout<<" The factorial of your number is "<< num <<" is " << f << endl;
```

```
return 0;
```

```
}
```

Output



The screenshot shows a C++ IDE with two windows. The left window displays the source code for a factorial program. The right window shows the program's output, which includes a prompt for a number, the calculation of the factorial for 120, and a confirmation message.

```
Lab Task 4 (1).cpp Lab Manual #04 (1).cpp Lab Manual #04 (2).cpp [*] Lab Manual #04 (3).cpp
1 #include <iostream>
2 using namespace std;
3 int main() {
4     int num;
5     int f;
6
7     cout<<"Enter the number you want factorial of" << endl;
8     cin>> num;
9     for (int i=num-1; i>0; i--) {
10         f = num*i;
11     }
12     num = f;
13     cout<<"The factorial of your number is " << num << " is " << f << endl;
14     return 0;
15 }
16
```

```
C:\Users\mm\Desktop\Lab Manual #04 (1).exe
Enter the number you want factorial of
5
The factorial of your number is 120 is 120
.....
Process exited after 6.386 seconds with return value 0
Press any key to continue . . .
```

Task 2

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
int number=2, i, res; for (i=1; i<=10; i++)
```

```
{
```

```
res=number*i;
```

```
cout<<number<<" * " <<i<<" = " <<res;
```

```
    cout<<endl;
```

```
}
```

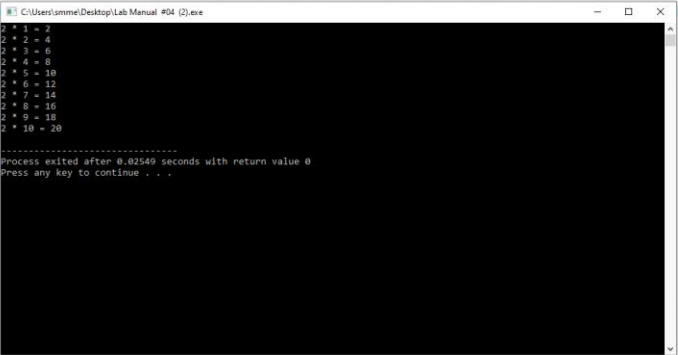
```
return 0;
```

}

Output

Lab test-4\1\cpp [1] Lab Manual #04 (1).cpp Lab Manual #04 (2).cpp

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int number=2, i, res; for (i=1; i<=10; i++)
6     {
7         res=number*i;
8         cout<<number<<" * "<<i<<" = "<<res<<endl;
9     }
10    return 0;
11 }
```



```
2 * 1 = 2
2 * 2 = 4
2 * 3 = 6
2 * 4 = 8
2 * 5 = 10
2 * 6 = 12
2 * 7 = 14
2 * 8 = 16
2 * 9 = 18
2 * 10 = 20

Process exited after 0.02549 seconds with return value 0
Press any key to continue . . .
```