Question1

```cpp
#include<iostream>
using namespace std;
int main()
{
    int i;
    int j;
    for(char i=1;i<=7;i++)
    {
        for(char j=1;j<=i;j++)
    {
    cout<<"*";
}
cout<<endl;
}
return 0;
}
```

```
C:\Users\HP\OneDrive\Desktop\program 4\ij.exe
*
**
***
****
*****
******
*******

--------------------------------
Process exited after 0.1583 seconds with return value 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\OneDrive\Desktop\program 4\ij.exe
- Output Size: 1.83212089538574 MiB
- Compilation Time: 0.97s
```

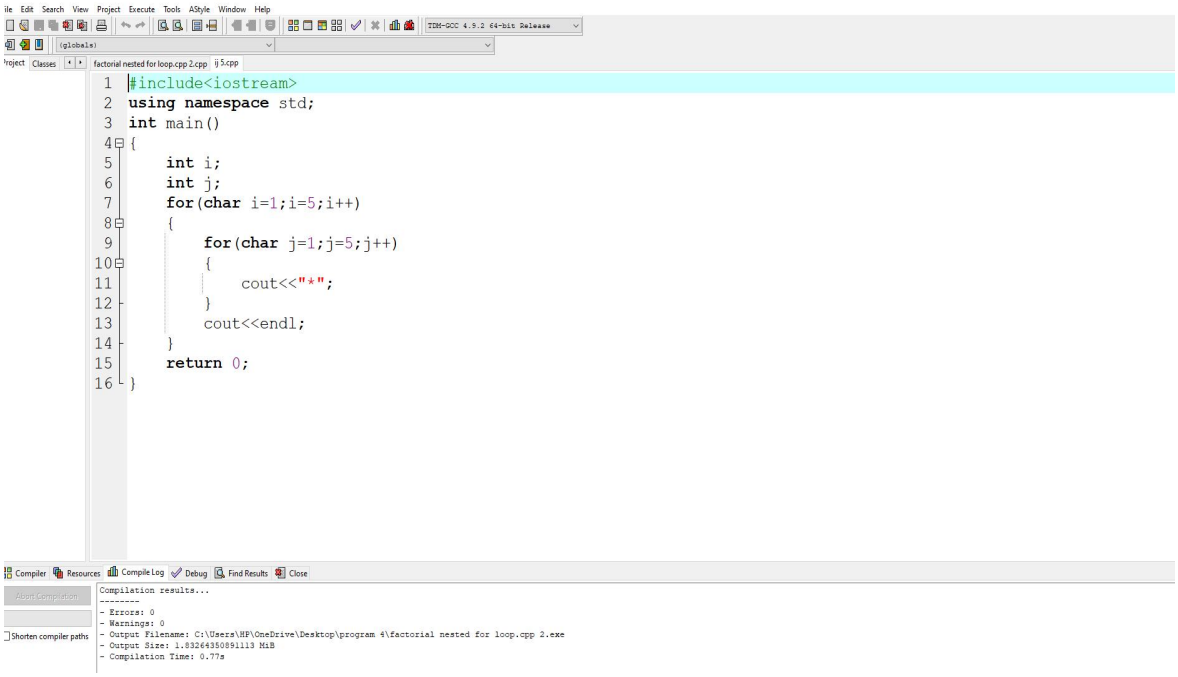
Question2

```cpp
#include<iostream>
using namespace std;
int main()
{
    int i=5;
    cout<<"Multiplication table from 0 to "<<i<<endl;
    cout<<"--------------------------------"<<endl;
    for(int i=0;i<=5;i++)
    {
        for(int j=0;j<=5;j++)
        {
            cout<<i<<"*"<<j<<"="<<i*j<<endl;
        }
        cout<<endl;
    }
    return 0;
}
```

```
C:\Users\HP\OneDrive\Desktop\program 4\multiply 5.exe
Multiplication table from 0 to 5
--------------------------------
0*0=0
0*1=0
0*2=0
0*3=0
0*4=0
0*5=0

1*0=0
1*1=1
1*2=2
1*3=3
1*4=4
1*5=5

2*0=0
2*1=2
2*2=4
2*3=6
2*4=8
2*5=10

3*0=0
3*1=3
3*2=6
3*3=9
3*4=12
3*5=15
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\OneDrive\Desktop\program 4\multiply 5.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 0.88s
```

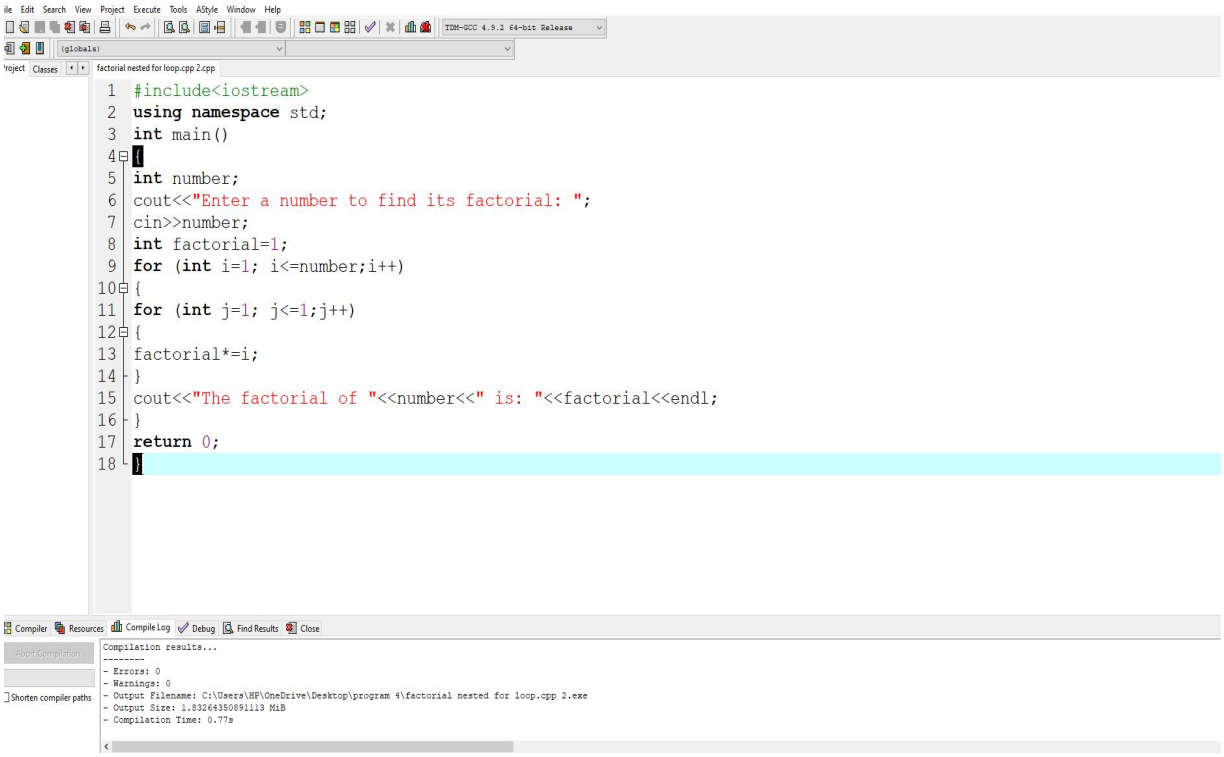
Question3



```
#include<iostream>
using namespace std;
int main()
{
    int i;
    int j;
    for(char i=1;i=5;i++)
    {
        for(char j=1;j=5;j++)
        {
            cout<<"*";
        }
        cout<<endl;
    }
    return 0;
}
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\OneDrive\Desktop\program 4\factorial nested for loop.cpp 2.exe
- Output Size: 1.83264350891113 MiB
- Compilation Time: 0.77s
```

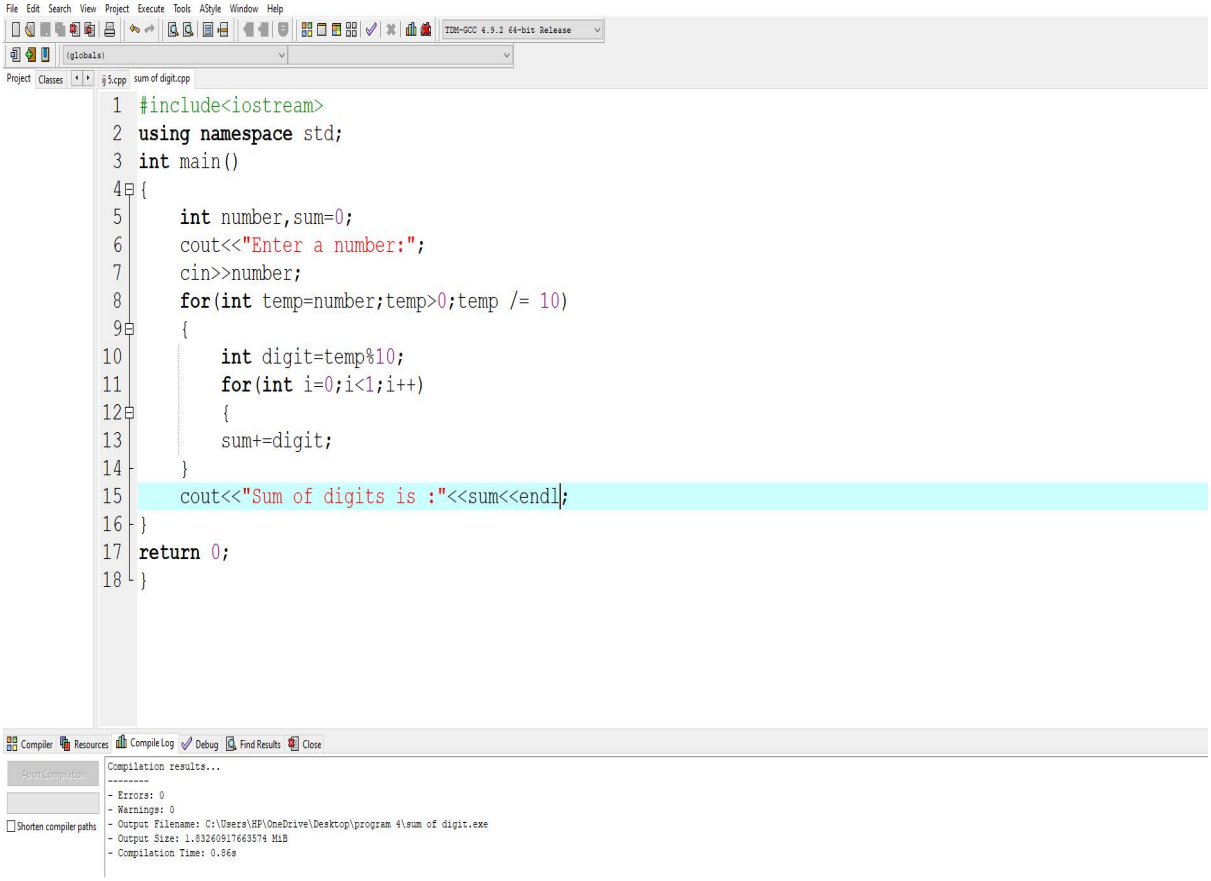
Question4



```
#include<iostream>
using namespace std;
int main()
{
int number;
cout<<"Enter a number to find its factorial: ";
cin>>number;
int factorial=1;
for (int i=1; i<=number;i++)
{
for (int j=1; j<=1;j++)
{
factorial*=i;
}
cout<<"The factorial of "<<number<<" is: "<<factorial<<endl;
}
return 0;
}
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\OneDrive\Desktop\program 4\factorial nested for loop.cpp 2.exe
- Output Size: 1.83264350891113 MiB
- Compilation Time: 0.77s
```

Question5



```
#include<iostream>
using namespace std;
int main()
{
    int number,sum=0;
    cout<<"Enter a number:";
    cin>>number;
    for(int temp=number;temp>0;temp /= 10)
    {
        int digit=temp%10;
        for(int i=0;i<1;i++)
        {
        sum+=digit;
    }
    cout<<"Sum of digits is :"<<sum<<endl;
}
return 0;
}
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\OneDrive\Desktop\program 4\sum of digit.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 0.86s
```