QUESTION NO 1:

```cpp
#include<iostream>
using namespace std;
int main()
{
    int i;
    int j;
    for(char i='a';i<='e';i++)
    {
        for(char j='a';j<=i;j++)
        {
            cout<<j;
        }
        cout<<endl;
    }
    return 0;
}
```

Output:
```
a
ab
abc
abcd
abcde
------------------------------------
Process exited after 0.4192 seconds with return val
Press any key to continue . . .
```
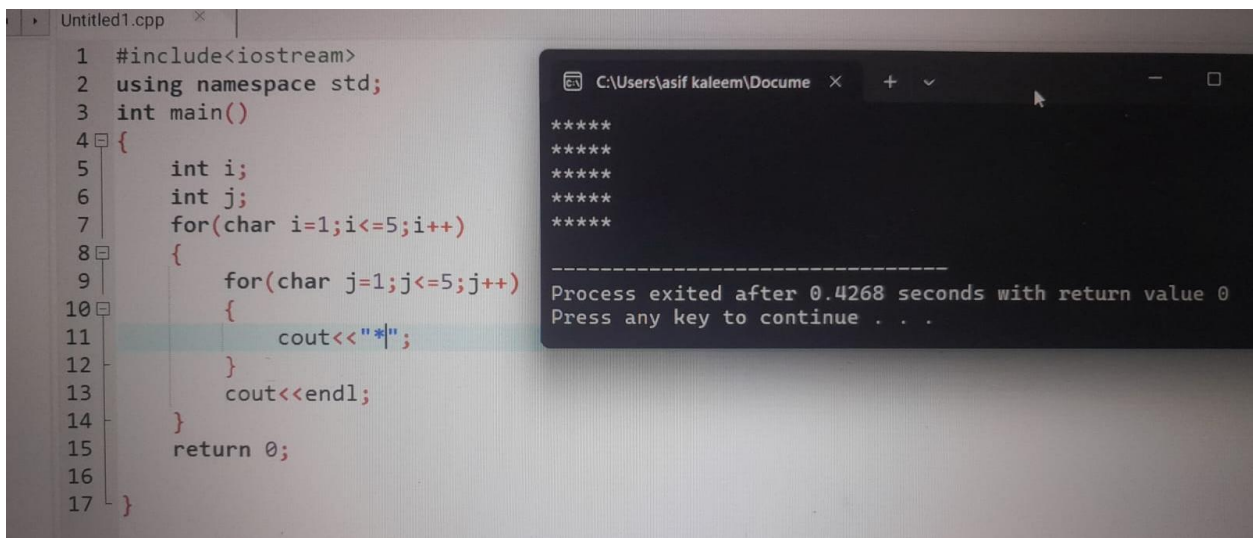
QUESTION NO 2:

```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 << " x " << j << " = " << i * j <<endl;
        }
        cout << endl;
    }

    return 0;

}
```

Output:
```
Multiplication Table from 0
----------------------------
0 x 0 = 0
0 x 1 = 0
0 x 2 = 0
0 x 3 = 0
0 x 4 = 0
0 x 5 = 0

1 x 0 = 0
1 x 1 = 1
1 x 2 = 2
1 x 3 = 3
1 x 4 = 4
1 x 5 = 5
```
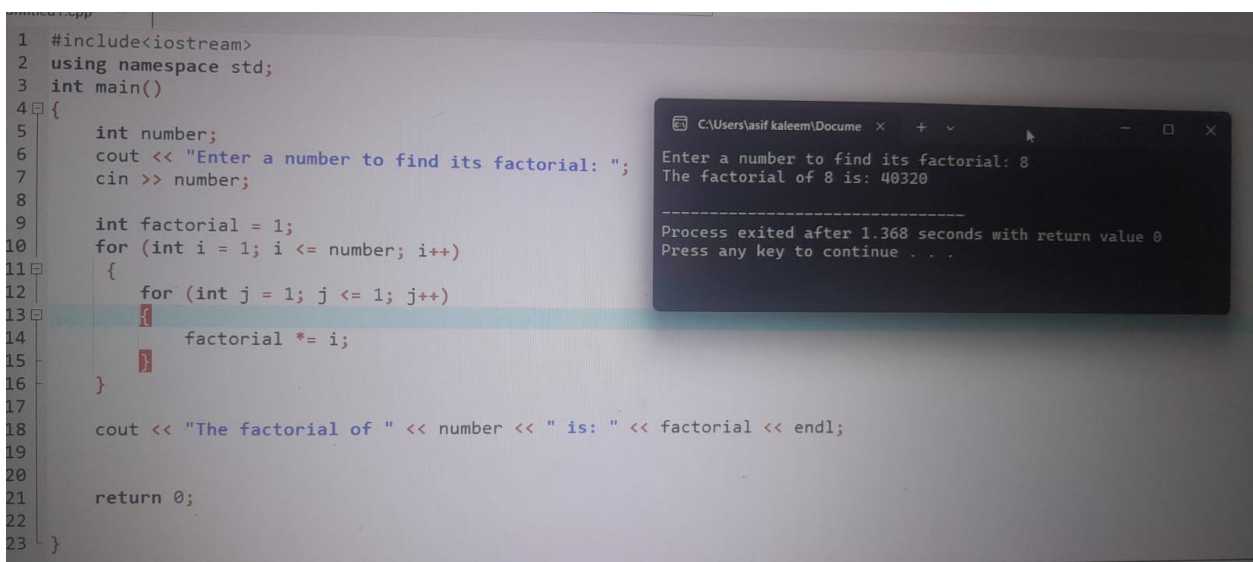
QUESTION NO 3:

```cpp
#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;

}
```

```
*****
*****
*****
*****
*****

------------------------------------
Process exited after 0.4268 seconds with return value 0
Press any key to continue . . .
```

QUESTION NO 4:

```cpp
#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;

}
```

```
Enter a number to find its factorial: 8
The factorial of 8 is: 40320

------------------------------------
Process exited after 1.368 seconds with return value 0
Press any key to continue . . .
```

QUESTION NO 5:

```cpp
#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 the digits: " << sum << endl;



    return 0;

}
```

Enter a number: 123456789
Sum of the digits: 45

Process exited after 9.05 seconds with return value 0
Press any key to continue . . .

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