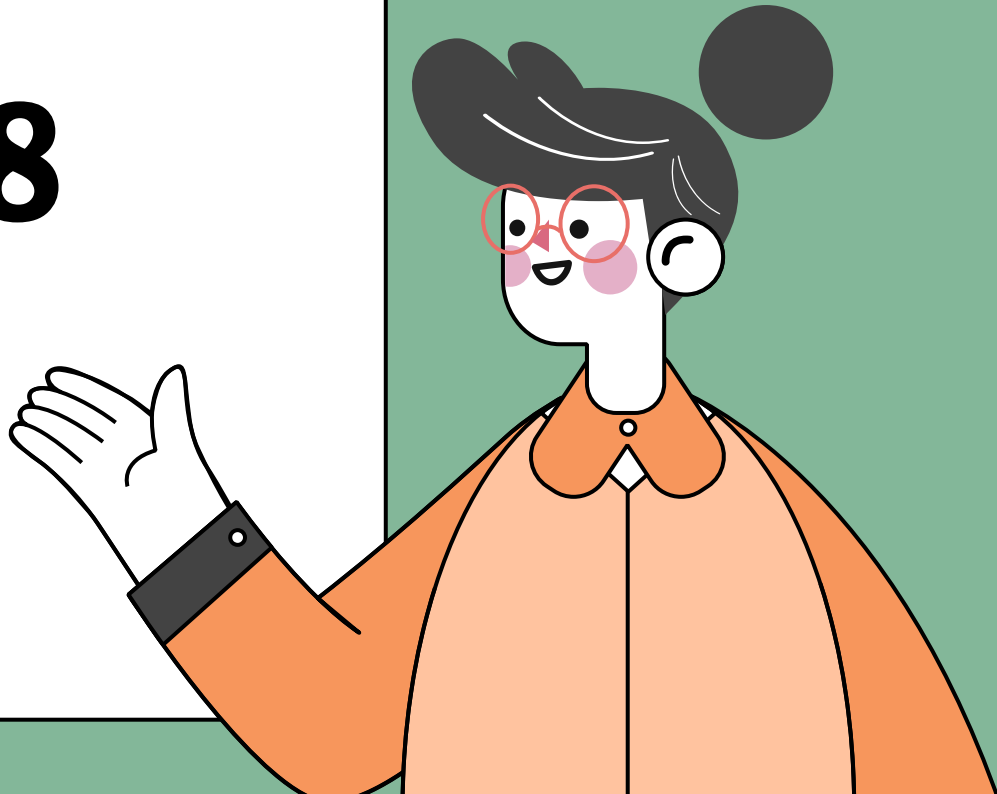
GROUP 8

ACTIVITY 2



GROUP8 BSIT-1B

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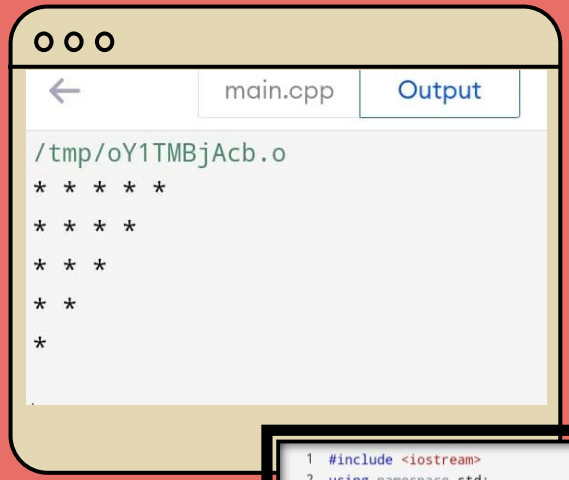
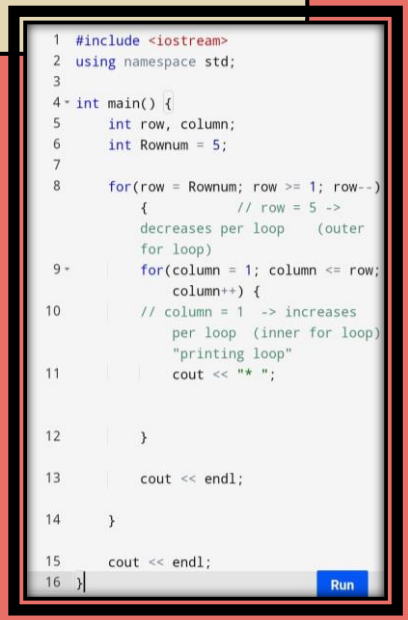
ITEM 1

Create a program for the given output:

```cpp
#include <iostream>
using namespace std;

int main()
{
    int row, column;
    int Rownum = 5;

      for(row = Rownum; row >= 1; row--)
         {

   // row = 5 -> decreases per loop (outer for loop)

            for(column = 1; column <= row; column++)
                {
       // column = 1 -> increases per loop
          (inner for loop) "printing loop"

                      cout << "* ";
                }
                cout << endl;
         }
         cout << endl;
}
```



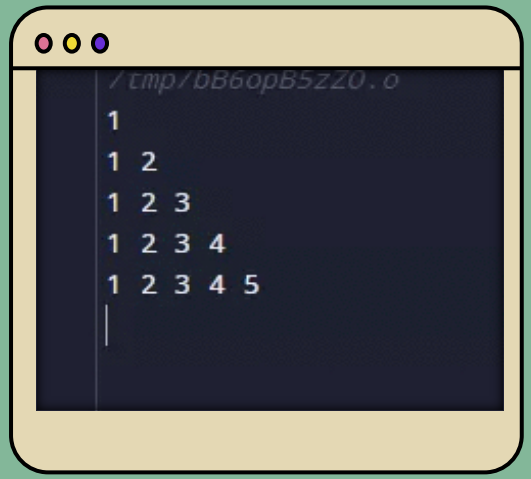


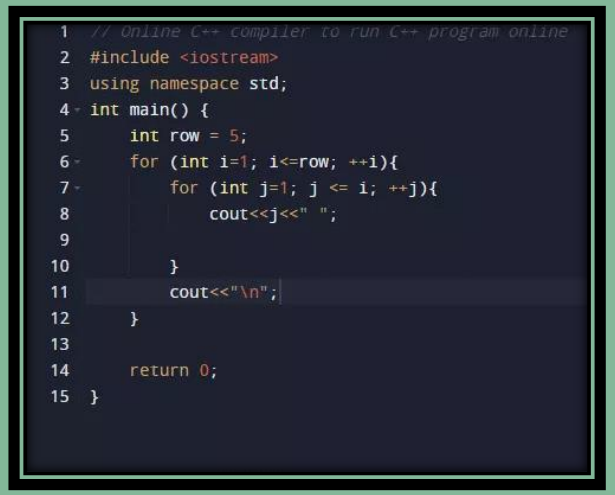
ITEM 2

Create a program for the given output:

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

ITEM 2





```cpp
// Online C++ compiler to run C++ program online
#include <iostream>
using namespace std;
int main() {
    int row = 5;
    for (int i=1; i<=row; ++i){
        for (int j=1; j <= i; ++j){
            cout<<j<<" ";

        }
        cout<<"\n";
    }

    return 0;
}
```

```cpp
#include <iostream>
using namespace std;

int main ()
{
   int row = 5;
   for (int i =1; i <=row; ++i)
    {
        for(int j=1; j<=i;++j)
          {
             cout<<j<<" ";
          }
          cout<<"\n";
    }
 return 0;

}
```

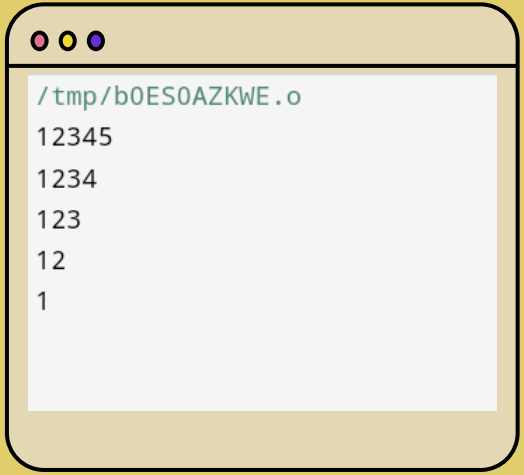
ITEM 3

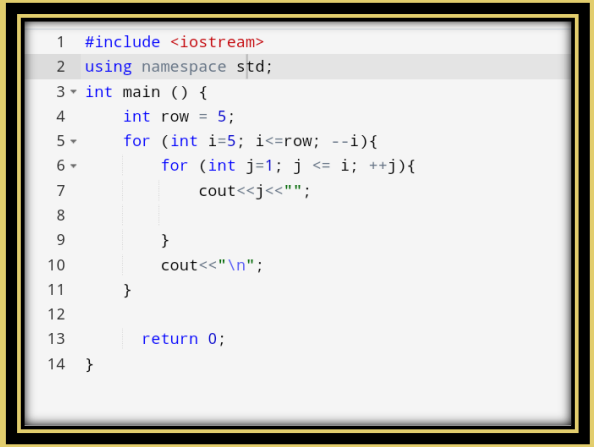
Create a program for the given output:

```
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1
```

ITEM 3

```
#include <iostream>
using namespace std;

int main ()
{
        int row = 5;
        for (int i=5; i<=row; --i)
            {
                for (int j=1; j <= i; ++j)
                    {
                        cout<<j<<"";
                    }
                    cout<<"\n";
            }
return 0;

}
```



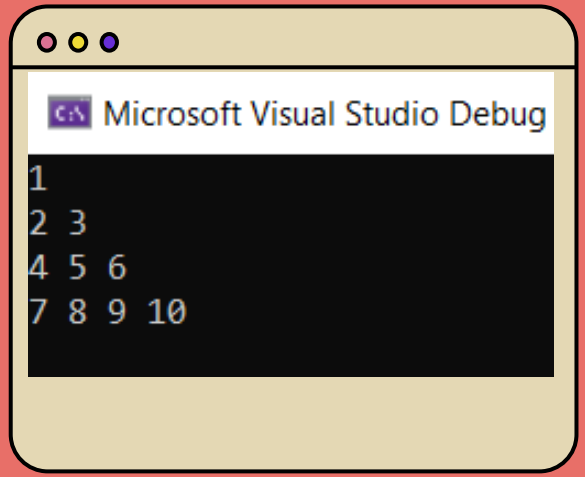


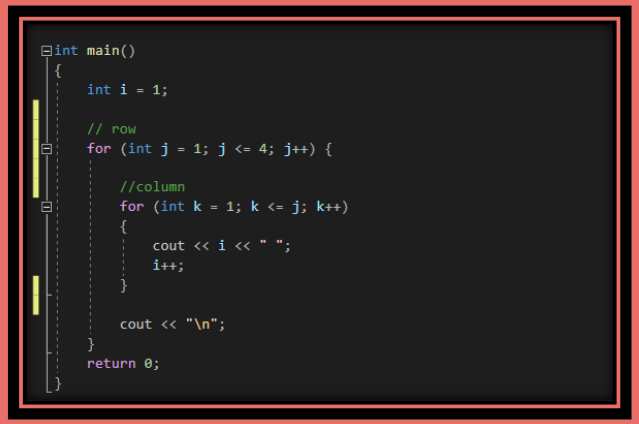
ITEM 4

Create a program for the given output:

```
1
2 3
4 5 6
7 8 9 10
```

ITEM 4

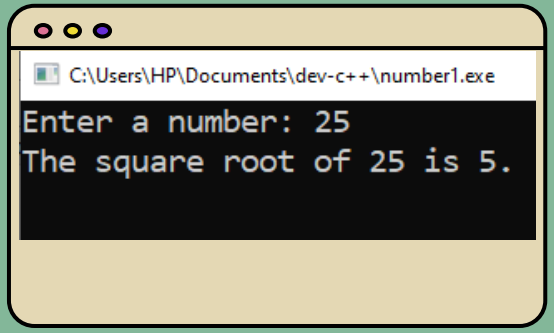


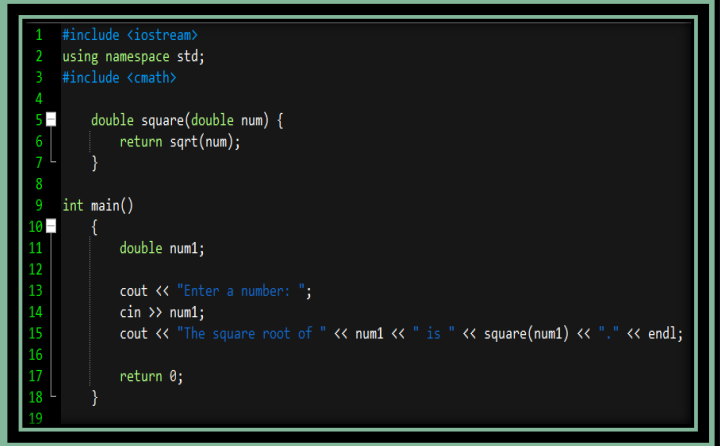



```
#include <iostream>
using namespace std;

int main()
{
  int i = 1;

    for (int j = 1; j <= 4; j++)
       {
         for (int k = 1; k <= j; k++)
            {
               cout << i << " "; i++;
            }
            cout << "\n";
       }
return 0;

}
```

ITEM 5

Create a program to find the square root of a number





```cpp
#include <iostream>
using namespace std;
#include <cmath>

    double square(double num) {
        return sqrt(num);
    }

int main()
    {
        double num1;

        cout << "Enter a number: ";
        cin >> num1;
        cout << "The square root of " << num1 << " is " << square(num1) << "." << endl;

        return 0;
    }
```

```cpp
#include <iostream>
using namespace std;
#include <cmath>

double square(double num) {
return sqrt(num);
}

int main()
            {
              double num1;

              cout << "Enter a number: ";
              cin >> num1;
              cout << "The square root of " << num1
              << " is " << square(num1) << "." << endl;


              return 0;
            }
```

ITEM 6

Create a program to compute
quotient and remainder
(enter dividend and divisor)

```cpp
#include <iostream>
using namespace std;

int quo(int a, int b) {
          return (a/b);
}
int rem(int a, int b) {
          return (a % b);
}

int main()
{
    int num1, num2 ;

    cout << "Enter your dividend: ";
    cin >> num1;
    cout << "Enter your divisor: ";
    cin >> num2;

    cout << "Quotient: "  << quo(num1,num2) <<" "<<endl;
    cout << "Remainder: " << rem(num1, num2) << " " << endl;
    return 0;
}
```