GROUP 6

GROUP ACTIVITY #2: CREATE A PROGRAM FOR THE GIVEN OUTPUT

OUTPUTS

01

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

ITEM 1

02

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

ITEM 2

03

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

ITEM 3

04

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

ITEM 4

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

int main() {
          int i = 5;
          int j = 0;

          while (i >=1) {

                  int j = i;

          while (j >= 1) {

                  cout << "*" << " ";
                  j--;

      }

                  j = 0;
                  i--;
          cout << endl;
  }
}
```

OUTPUT:

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

Item #2:

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

int main() {

    int rows = 5;

    for (int i = 1; i <= rows; i++) {

        for (int j = 1; j <= i; j++) {

            cout << j << " ";
        }

        cout << endl;
    }

    return 0;
}
```

OUTPUT:

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

Item #3:

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

int main() {

    int rows = 1;

    for (int i = 5; i >= rows; i--) {

        for (int j = 1; j <= i; j++) {

            cout << j << " ";
        }

        cout << endl;
    }

    return 0;
}
```

OUTPUT:

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

Item #4:

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

int main() {

    int x,y;
    int z = 1;

    for (x = 1; x <=4; x++) {

        for (y = 1; y <= x; y++) {

            cout << z << " ";
            z++;
        }

        cout << endl;
    }

    return 0;
}
```
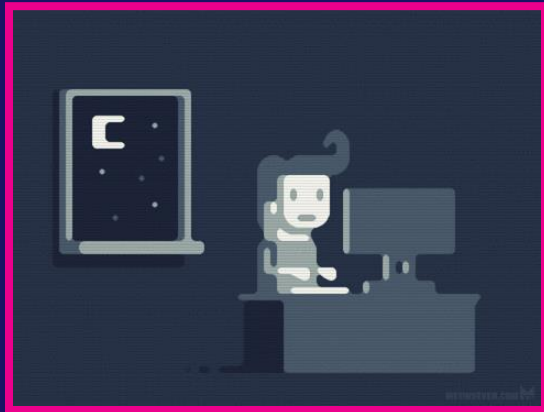
OUTPUT:

```
1

2 3

4 5 6

7 8 9 10
```

GROUP ACTIVITY #2:USE USER-DEFINED FUNCTIONS

1. CREATE A PROGRAM TO COMPUTE QUOTIENT AND REMAINDER (ENTER DIVIDEND AN DIVISOR)

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

int divide ( int a, int b)
{
return ( a/b);
}
int remainder ( int a, int b)
{
return ( a%b);
}

int main()
{
    int a;
    int b;
    float c;
    float d;

    cout << "Input dividend:" << endl;
    cin >> a;

    cout << "Input divisor:" << endl;
    cin >> b;

    c = divide ( a, b );
    d = remainder (a,b);

    cout << "Quotient is:" << " " << c << endl;
    cout << "Remainder is:" << " " << d << endl;
    return 0;
}
```

OUTPUT:

```
Input dividend:
100
Input divisor:
10
Quotient is: 10
Remainder is: 0
```

2.CREATE A PROGRAM TO FIND THE SQUARE ROOT OF A INPUT NUMBER.

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

int main() {

    int num;
    float x, z;

    cout << "Enter a number: ";

    cin >> num;

    z = num / 2;
    x = 0;

    while(z != x) {

        x = z;
        z = (num/x + x) / 2;
    }

    cout << "The square root of " << num << " is " << z;

    return 0;
}
```

OUTPUT:

Enter a number: 144

The square root of 144 is 12

GROUP 6

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