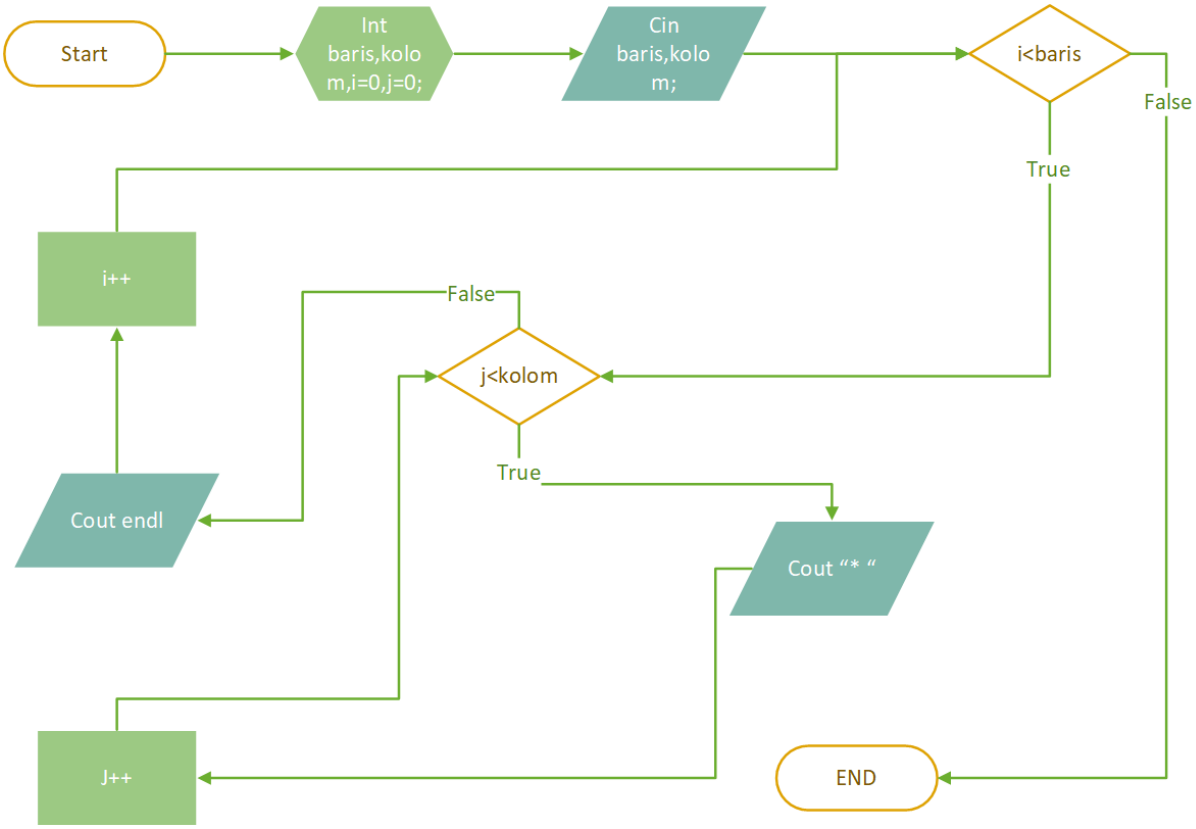
TUGAS PERTEMUAN 8
PRAKTIKUM ALGORITMA & STRUKTUR DATA

TYAN NUR KHOLLIS
41520010057
TEKNIK INFORMATIKA

Tugas 1 membuat formasi * untuk bentuk yang sesuai dengan inputan kolom dan bari (inputan user)

Flowchart:



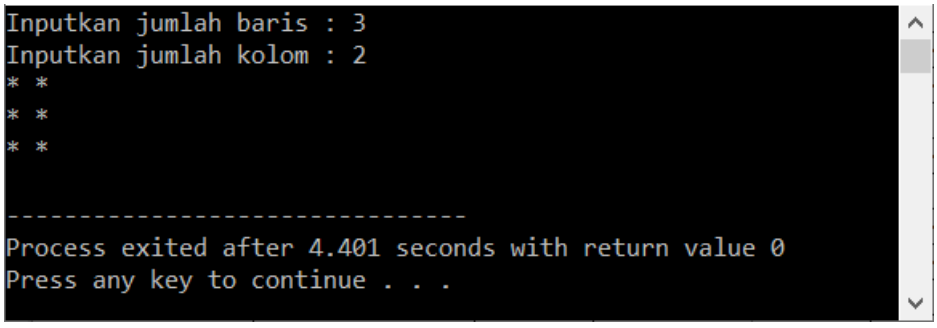
Simulasi Program:

Simulasi Program Tugas Nomor 1					
Inisialisasi	**Ex input**	**Kondisi**	**True/False**	**Output**	**Proses**
int baris,kolom,i=0 j = 0;	baris = 3, kolom = 2	i < baris	TRUE		
		j < kolom	TRUE	*	j = 0 + 1 = 1
		j < kolom	TRUE	*	j = 1 + 1 = 2
		j < kolom	FALSE	endl	
					i = 0 + 1 = 1
		i < baris	TRUE		
		j < kolom	TRUE	*	j = 0 + 1 = 1
		j < kolom	TRUE	*	j = 1 + 1 = 2
		j < kolom	FALSE	endl	
					i = 1 + 1 = 2
		i < baris	TRUE		
		j < kolom	TRUE	*	j = 0 + 1 = 1
		j < kolom	TRUE	*	j = 1 + 1 = 2
		j < kolom	FALSE	endl	
					i = 2 + 1 = 3
		i < baris	FALSE		EXIT

Program/Source Code :

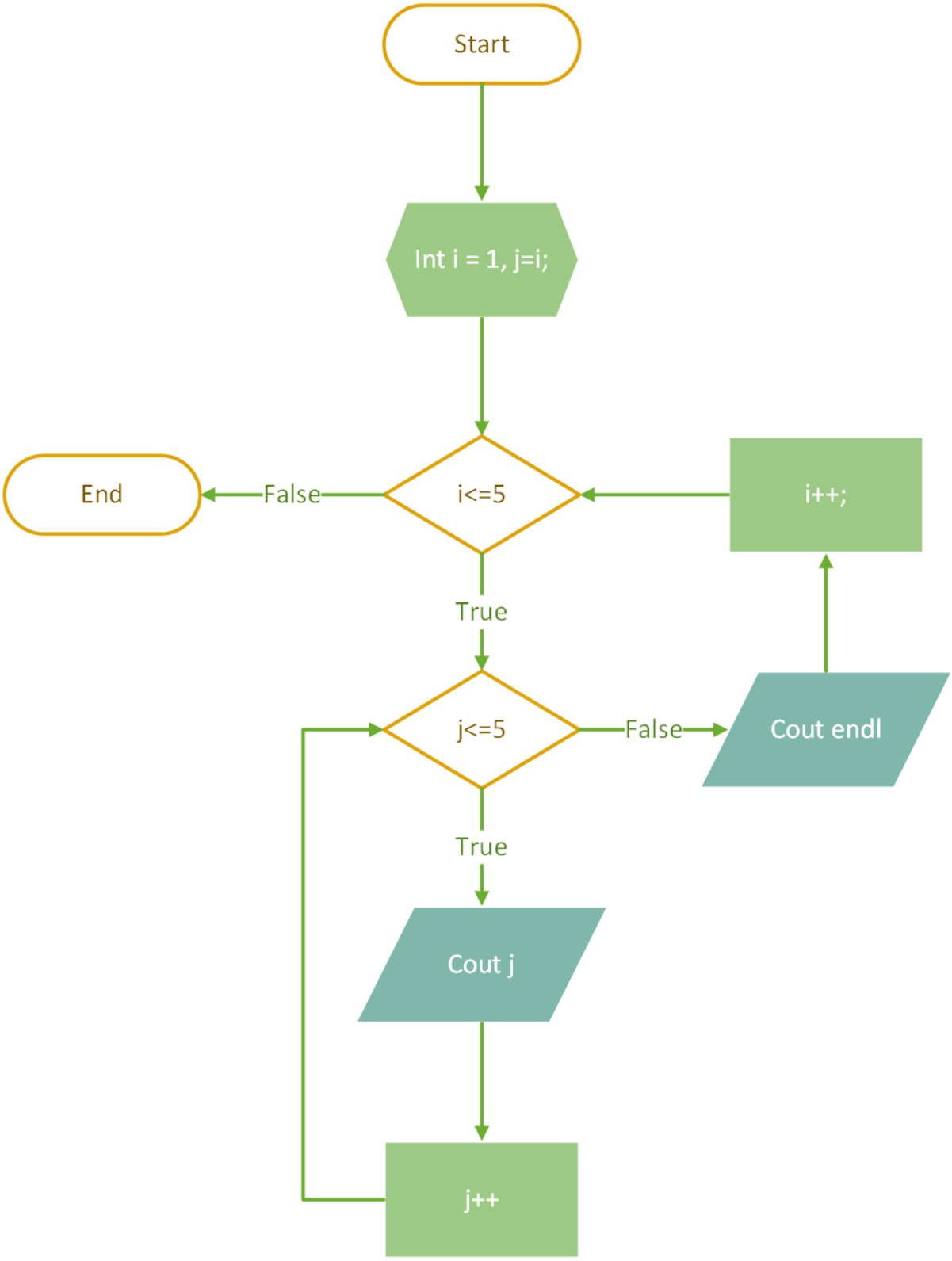
```
#include <iostream>

using namespace std;

int main(){
		int baris,kolom;

		cout << "Inputkan jumlah baris : "; cin >> baris;
		cout << "Inputkan jumlah kolom : "; cin >> kolom;

		for(int i=0; i<baris; i++){
		    for(int j=0; j<kolom; j++){
			cout << "* ";
		    }
		    cout << endl;
		}

		return 0;
}
```

Screenshot running program :



Tugas 2 Membuat Formasi: 12345
2345
345
45
5

Flowchart:



Simulasi Program :

Simulasi Program Tugas Nomor 2				
Inisialisasi	Kondisi	True/False	Output	Proses
int i=1,j = i;	i <=5	TRUE		
	j <=5	TRUE	j	j = 1 + 1 = 2
	j <=5	TRUE	j	j = 2 + 1 = 3
	j <=5	TRUE	j	j = 3 + 1 = 4
	j <=5	TRUE	j	j = 4 + 1 = 5
	j <=5	TRUE	j	j = 5 + 1 = 6
	j <=5	FALSE	endl	
				i = 1 + 1 = 2
	i <=5	TRUE		
	j <=5	TRUE	j	j = 2 + 1 = 3
	j <=5	TRUE	j	j = 3 + 1 = 4
	j <=5	TRUE	j	j = 4 + 1 = 5
	j <=5	TRUE	j	j = 5 + 1 = 6
	j <=5	FALSE	endl	
				i = 2 + 1 = 3
	i <=5	TRUE		
	j <=5	TRUE	j	j = 3 + 1 = 4
	j <=5	TRUE	j	j = 4 + 1 = 5
	j <=5	TRUE	j	j = 5 + 1 = 6
	j <=5	FALSE	endl	
				i = 3 + 1 = 4
	i <=5	TRUE		
	j <=5	TRUE	j	j = 4 + 1 = 5
	j <=5	TRUE	j	j = 5 + 1 = 6
	j <=5	FALSE	endl	
				i = 4 + 1 = 5
	i <=5	TRUE		
	j <=5	TRUE	j	j = 5 + 1 = 6
	j <=5	FALSE	endl	
				i = 5 + 1 = 6
	i <=5	FALSE		EXIT

Program/Source Code:

```
#include <iostream>

using namespace std;

int main(){
	for(int i=1; i<=5; i++){
		for(int j=i; j<=5; j++){
			cout << j;
		}
		cout << endl;
	}

	return 0;
}
```

Screenshot running program: