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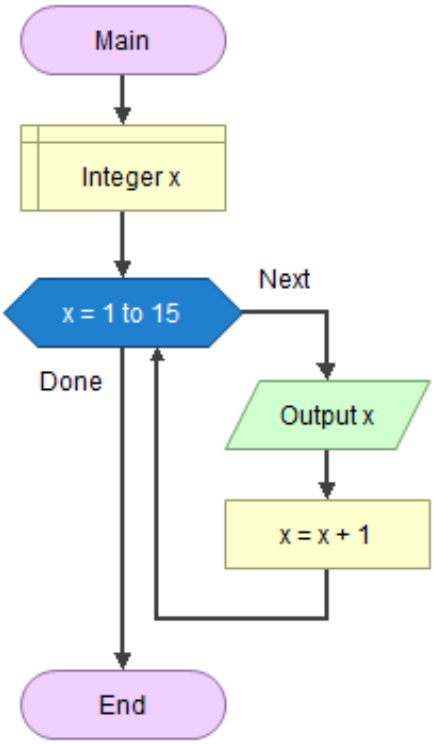
Kelas : A

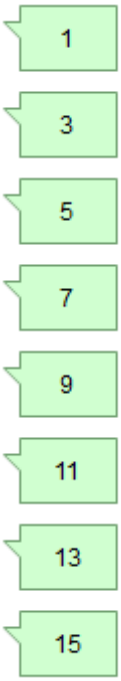
BP : 029

Latihan 3.1 :

Buatlah Algoritma, Flowchat , Pemrograman Phyton dan C++ untuk menampilkan bilangan GANJIL dari 1 sampai dengan 15 menggunakan Perulangan For

A. Flowchart





B. Code

Python

```
for x in range(1, 15 + 1, 1):
    print(x)
    x = x + 1
```

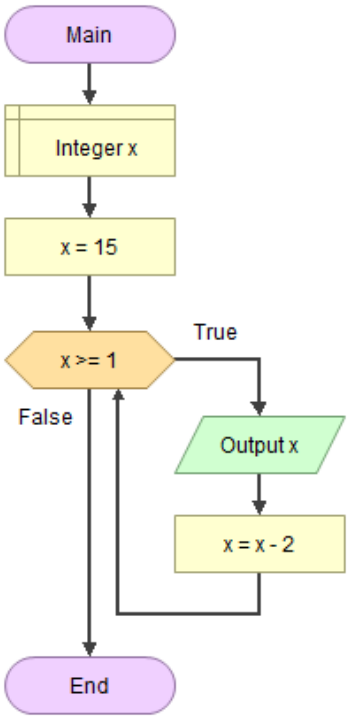
C++

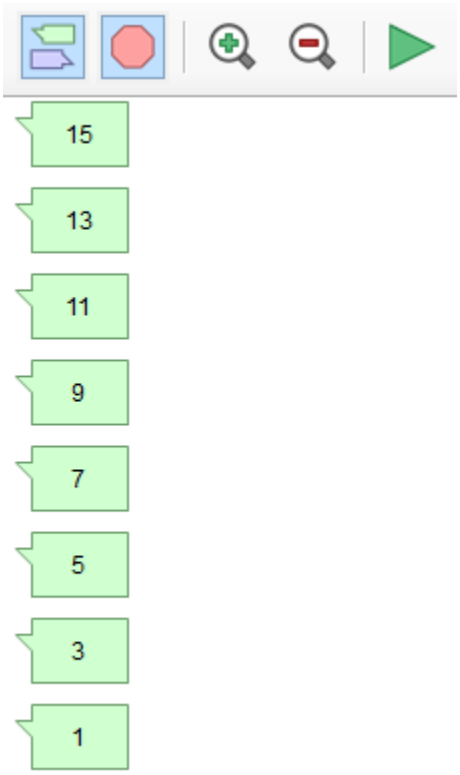
```
int main() {
    int x;

    for (x = 1; x <= 15; x++) {
        cout << x << endl;
        x = x + 1;
    }
    return 0;
}
```

Tugas 3.1

Menampilkan bilangan GANJIL dari 15 sampai dengan 1 menggunakan Perulangan While

A. Flowchart





B. Code

Python

```
x = 15
while x >= 1:
    print(x)
    x = x - 2
```

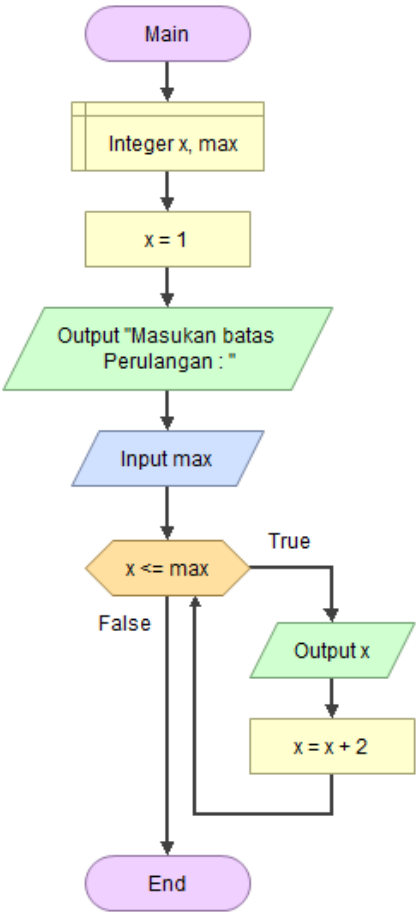
C++

```
int main() {
    int x;

    x = 15;
    while (x >= 1) {
        cout << x << endl;
        x = x - 2;
    }
    return 0;
}
```

Tugas 3.2

Menampilkan bilangan GANJIL menggunakan Perulangan While dimana rentang bilangan GANJIL yang akan ditampilkan adalah dari 1 sampai batas yang ditentukan dengan cara menginputkan nilainya.

A. Flowchart



B. Code

Python

```
x = 1
print("Masukan batas Perulangan : ")
max = int(input())
while x <= max:
    print(x)
    x = x + 2
```

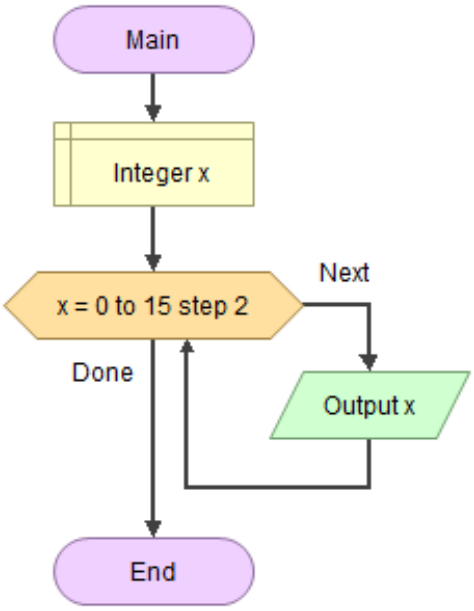
C++

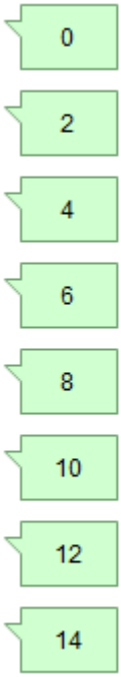
```
int main() {
    int x, max;

    x = 1;
    cout << "Masukan batas Perulangan : " << endl;
    cin >> max;
    while (x <= max) {
        cout << x << endl;
        x = x + 2;
    }
    return 0;
}
```

Tugas 3.3 For

Untuk menampilkan bilangan GENAP dari 1 sampai dengan 15 menggunakan Perulangan FOR dan WHILE

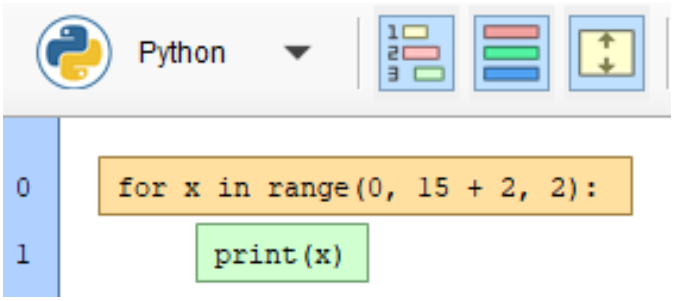
A. Flowchart



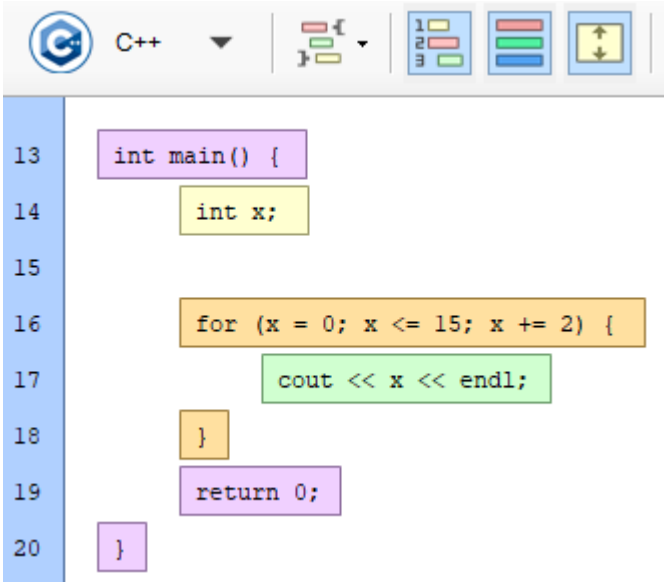


B. Code

Python

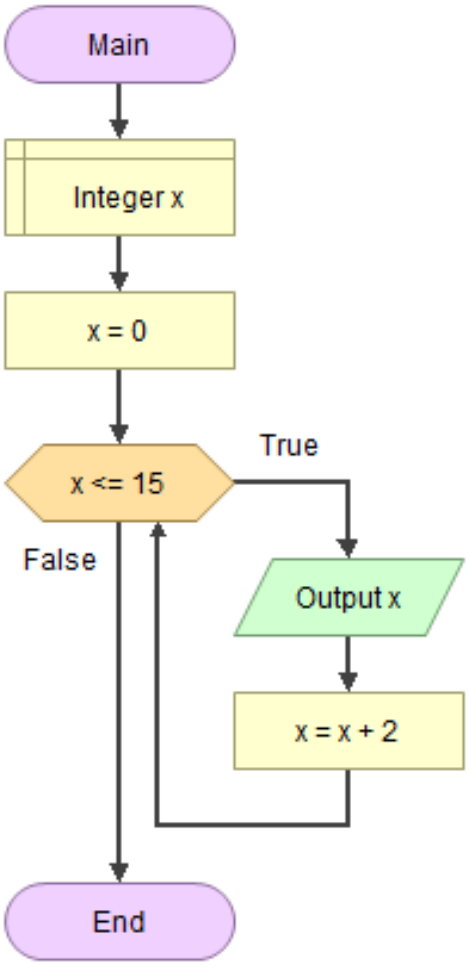


C++



Tugas 3.3 While

A. Flowchart




```
0
2
4
6
8
10
12
14
```

B. Code

Python

```
x = 0
while x <= 15:
    print(x)
    x = x + 2
```

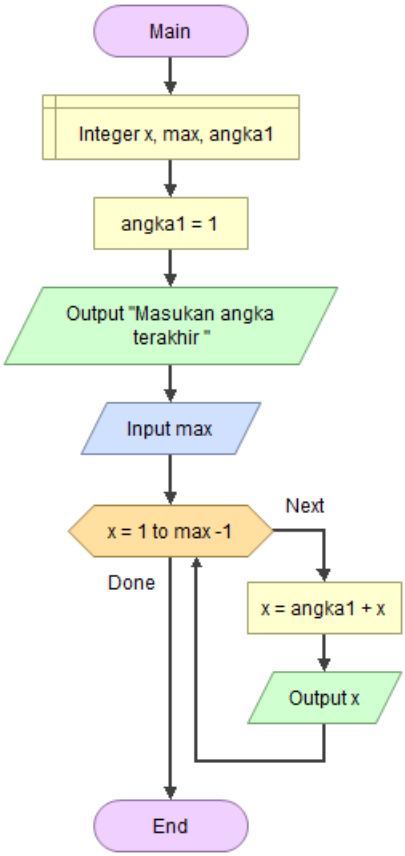
C++

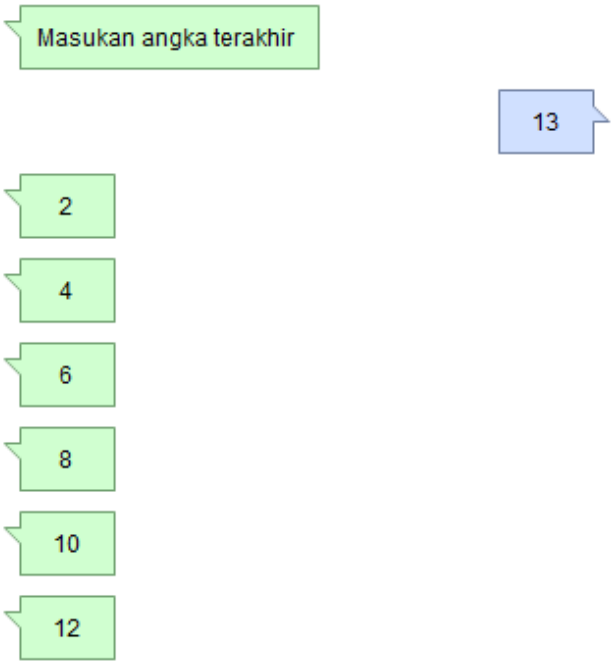
```
int main() {
    int x;

    x = 0;
    while (x <= 15) {
        cout << x << endl;
        x = x + 2;
    }
    return 0;
}
```

Tugas 3.4 For

Untuk menampilkan bilangan GENAP menggunakan Perulangan FOR dan WHILE dimana rentang bilangan GENAP yang akan ditampilkan adalah dari 1 sampai batas yang ditentukan dengan cara menginputkan nilainya.

A. Flowchart





B. Code

Python

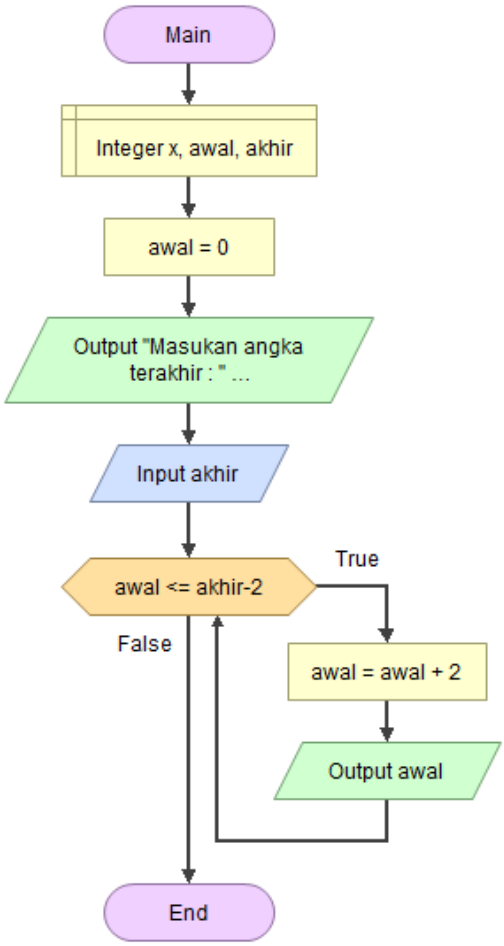
```
angkal = 1
print("Masukan angka terakhir ")
max = int(input())
for x in range(1, max - 1 + 1, 1):
    x = angkal + x
    print(x)
```

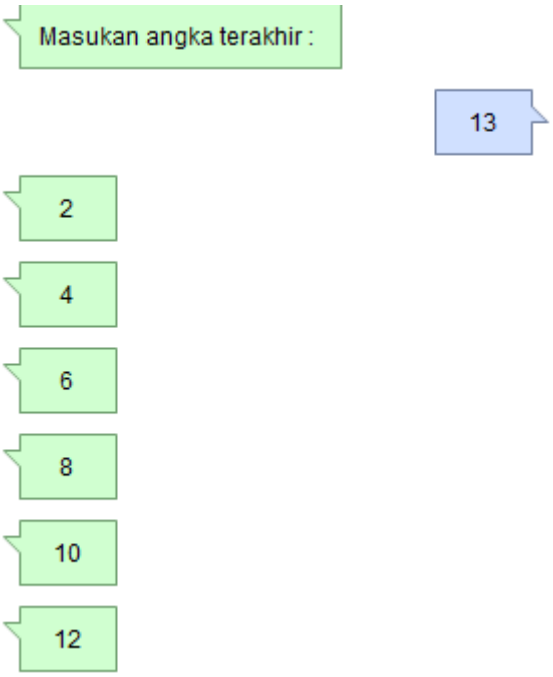
C++

```
int main() {
    int x, max, angkal;

    angkal = 1;
    cout << "Masukan angka terakhir " << endl;
    cin >> max;
    for (x = 1; x <= max - 1; x++) {
        x = angkal + x;
        cout << x << endl;
    }
    return 0;
}
```

Tugas 3.4 While

A. Flowchart





B. Code

Python

```python
awal = 0
print("Masukan angka terakhir : ", end='', flush=True)
akhir = int(input())
while awal <= akhir - 2:
    awal = awal + 2
    print(awal)
```

C++

```cpp
int main() {
    int x, awal, akhir;

    awal = 0;
    cout << "Masukan angka terakhir : ";
    cin >> akhir;
    while (awal <= akhir - 2) {
        awal = awal + 2;
        cout << awal << endl;
    }
    return 0;
}
```

Latihan 3.2

Buatlah Algoritma, Flowchart , Pemrograman Phyton dan C++ untuk menampilkan Deret Bilangan dibawah ini menggunakan Perulangan For

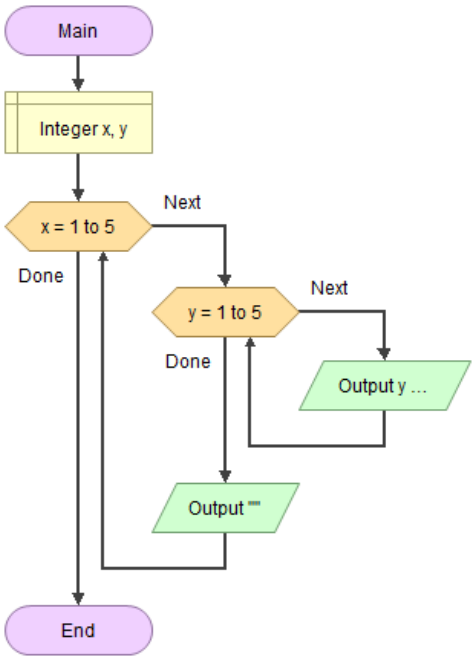
12345

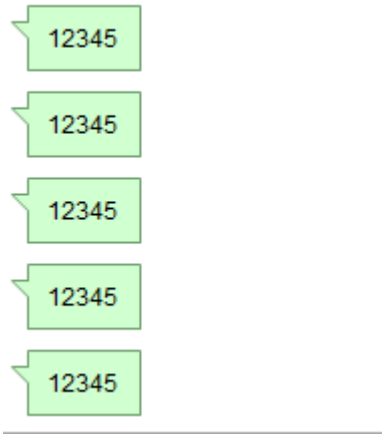
12345

12345

12345

A. Flowchart





B. Code

Python

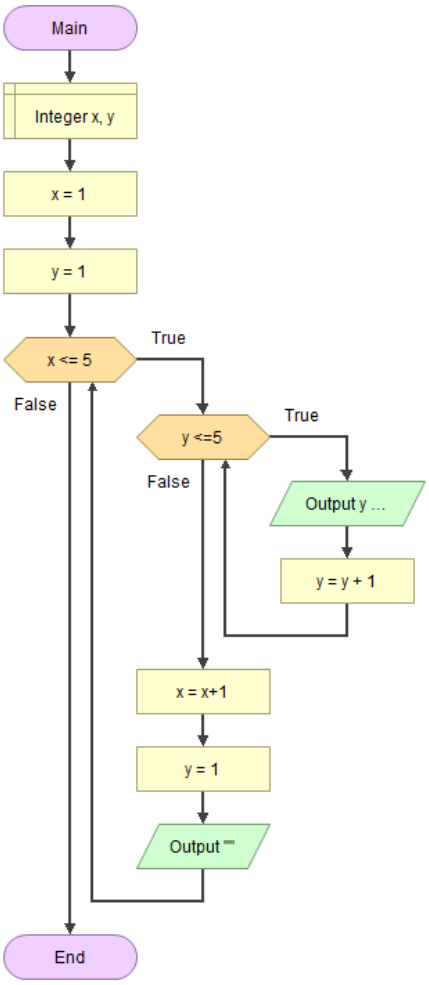
```python
for x in range(1, 5 + 1, 1):
    for y in range(1, 5 + 1, 1):
        print(y, end='', flush=True)
    print("")
```

C++

```cpp
int main() {
    int x, y;

    for (x = 1; x <= 5; x++) {
        for (y = 1; y <= 5; y++) {
            cout << y;
        }
        cout << "" << endl;
    }
    return 0;
}
```

Tugas 3.5

A. Flowchart



B. Code

Python

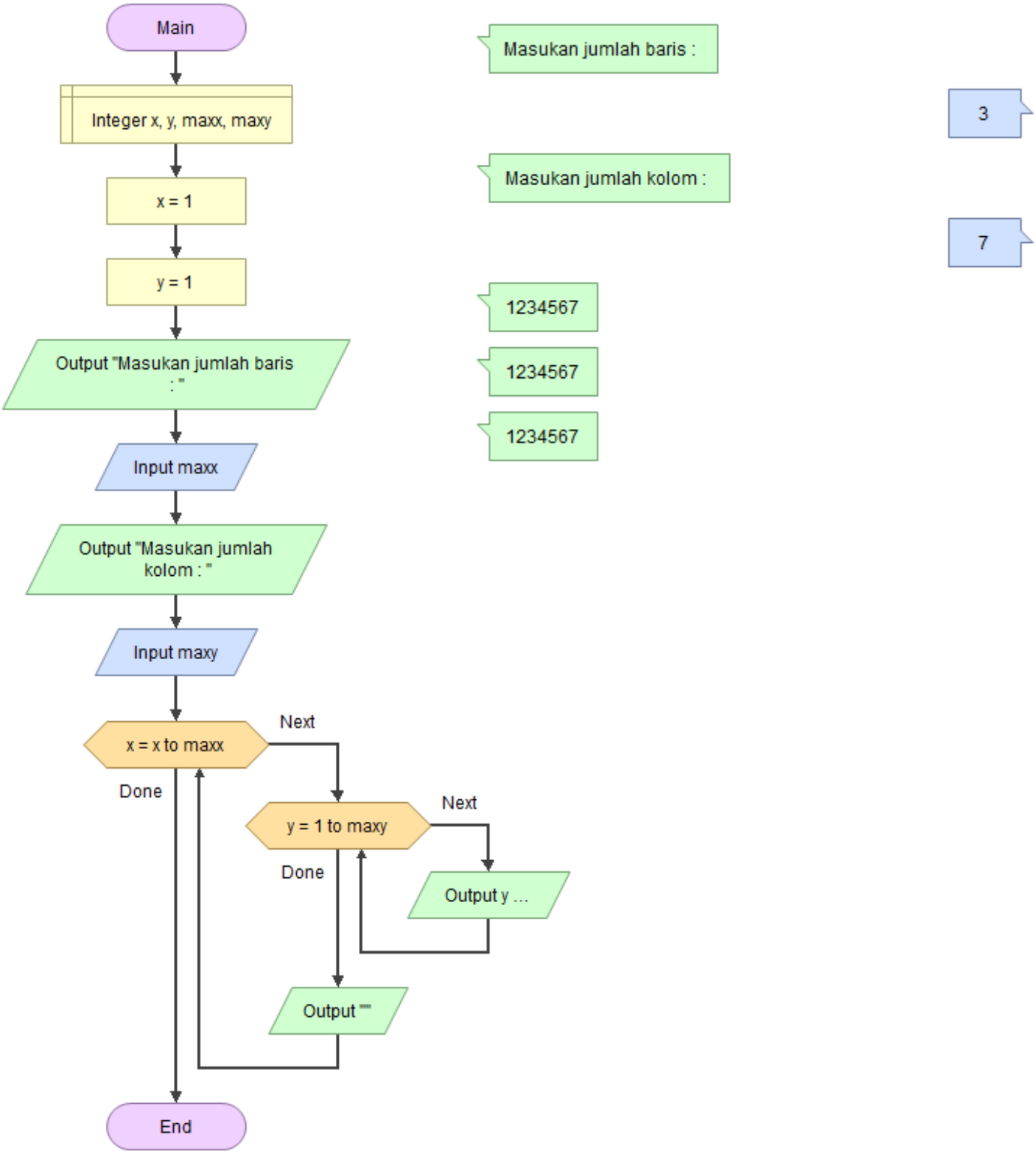
```
x = 1
y = 1
while x <= 5:
    while y <= 5:
        print(y, end='', flush=True)
        y = y + 1
    x = x + 1
    y = 1
    print("")
```

C++

```
int main() {
    int x, y;

    x = 1;
    y = 1;
    while (x <= 5) {
        while (y <= 5) {
            cout << y;
            y = y + 1;
        }
        x = x + 1;
        y = 1;
        cout << "" << endl;
    }
    return 0;
}
```

Tugas 3.6 For

A. Flowchart



B. Code

Python

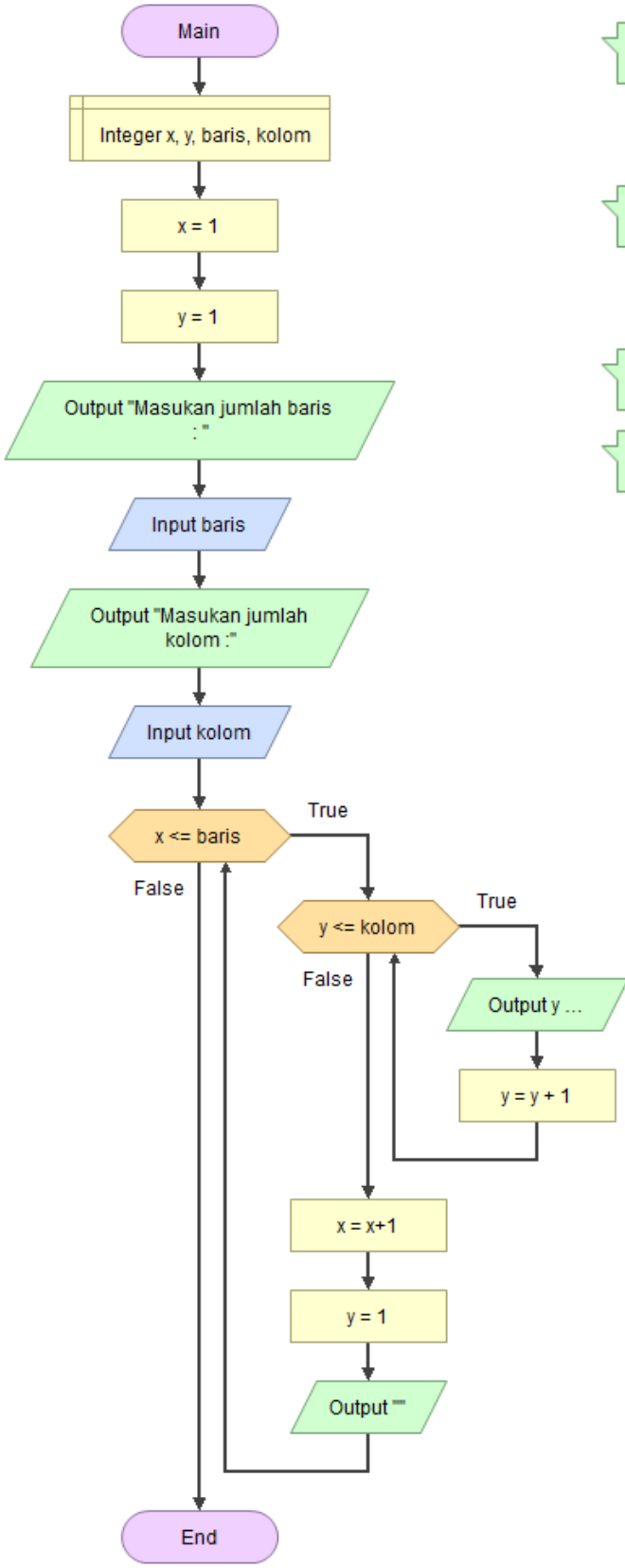
```python
x = 1
y = 1
print("Masukan jumlah baris : ")
maxx = int(input())
print("Masukan jumlah kolom : ")
maxy = int(input())
for x in range(x, maxx + 1, 1):
    for y in range(1, maxy + 1, 1):
        print(y, end='', flush=True)
    print("")
```

C++

```cpp
int main() {
    int x, y, maxx, maxy;

    x = 1;
    y = 1;
    cout << "Masukan jumlah baris : " << endl;
    cin >> maxx;
    cout << "Masukan jumlah kolom : " << endl;
    cin >> maxy;
    for (x = x; x <= maxx; x++) {
        for (y = 1; y <= maxy; y++) {
            cout << y;
        }
        cout << "" << endl;
    }
    return 0;
}
```

Tugas 3.6 While

A . Flowchart



B. Code

Python

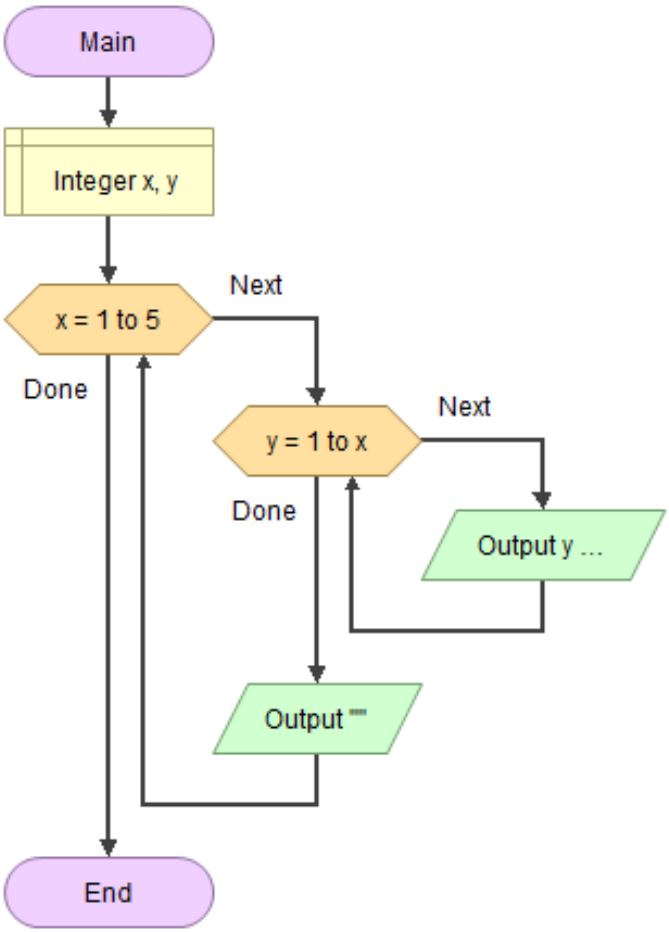
```python
x = 1
y = 1
print("Masukan jumlah baris : ")
baris = int(input())
print("Masukan jumlah kolom :")
kolom = int(input())
while x <= baris:
    while y <= kolom:
        print(y, end='', flush=True)
        y = y + 1
    x = x + 1
    y = 1
    print("")
```

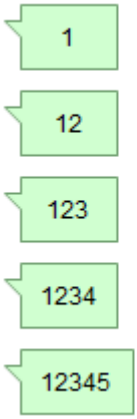
C++

```cpp
int main() {
    int x, y, baris, kolom;

    x = 1;
    y = 1;
    cout << "Masukan jumlah baris : " << endl;
    cin >> baris;
    cout << "Masukan jumlah kolom :" << endl;
    cin >> kolom;
    while (x <= baris) {
        while (y <= kolom) {
            cout << y;
            y = y + 1;
        }
        x = x + 1;
        y = 1;
        cout << "" << endl;
    }
    return 0;
}
```

Latihan 3.3

A. FLowchart





B. Code

Python

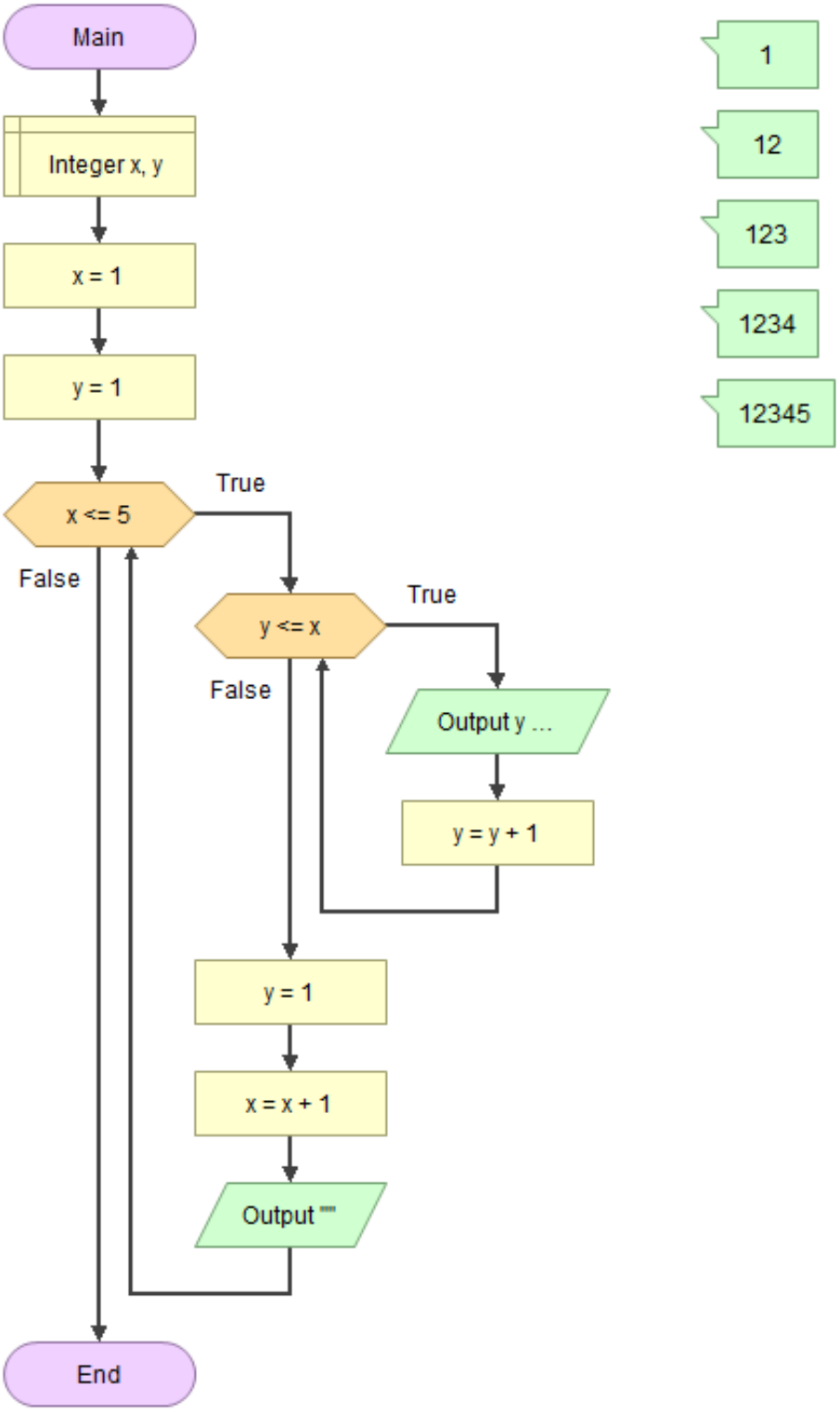
```
0  for x in range(1, 5 + 1, 1):
1      for y in range(1, x + 1, 1):
2          print(y, end='', flush=True)
3      print("")
```

C++

```
13 int main() {
14     int x, y;
15
16     for (x = 1; x <= 5; x++) {
17         for (y = 1; y <= x; y++) {
18             cout << y;
19         }
20         cout << "" << endl;
21     }
22     return 0;
23 }
```

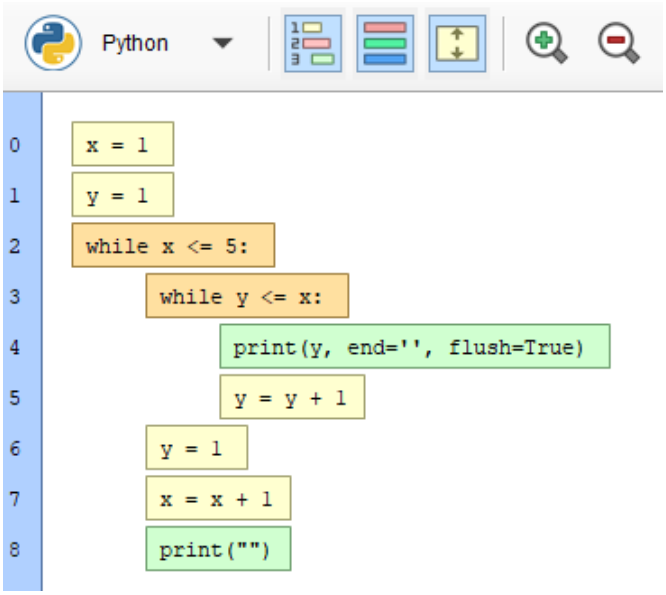
Tugas 3.7

A. Flowchart



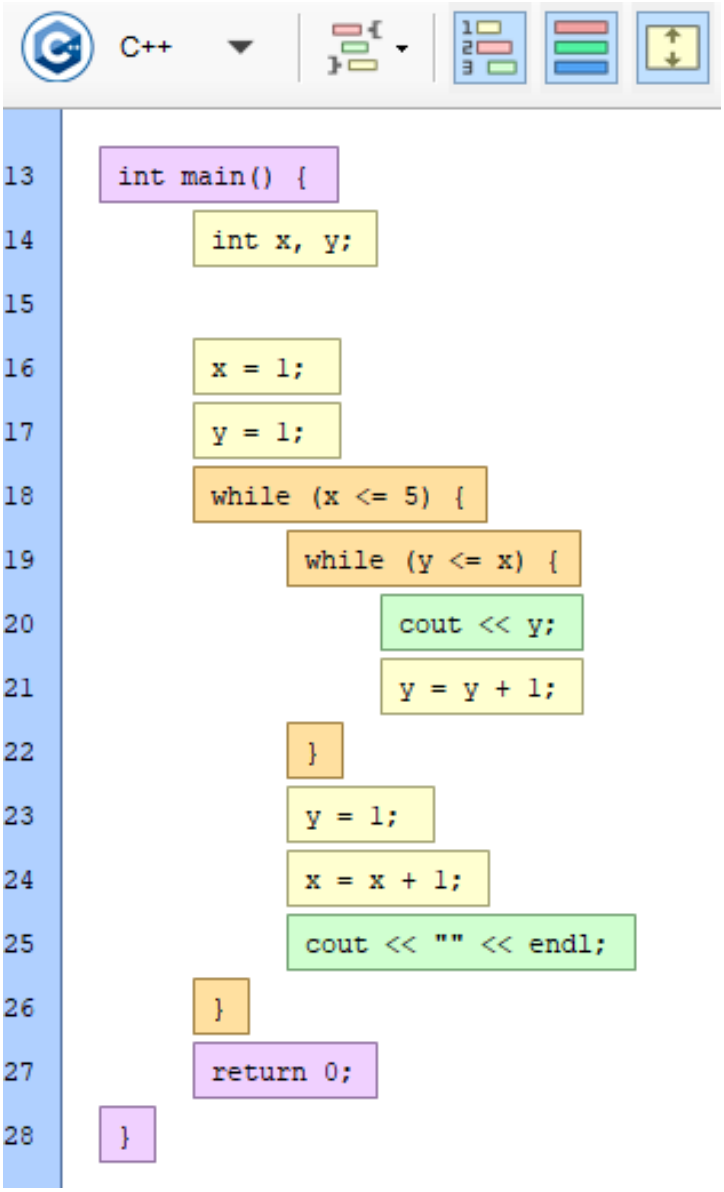
B. Code

Python



```
x = 1
y = 1
while x <= 5:
    while y <= x:
        print(y, end='', flush=True)
        y = y + 1
    y = 1
    x = x + 1
    print("")
```

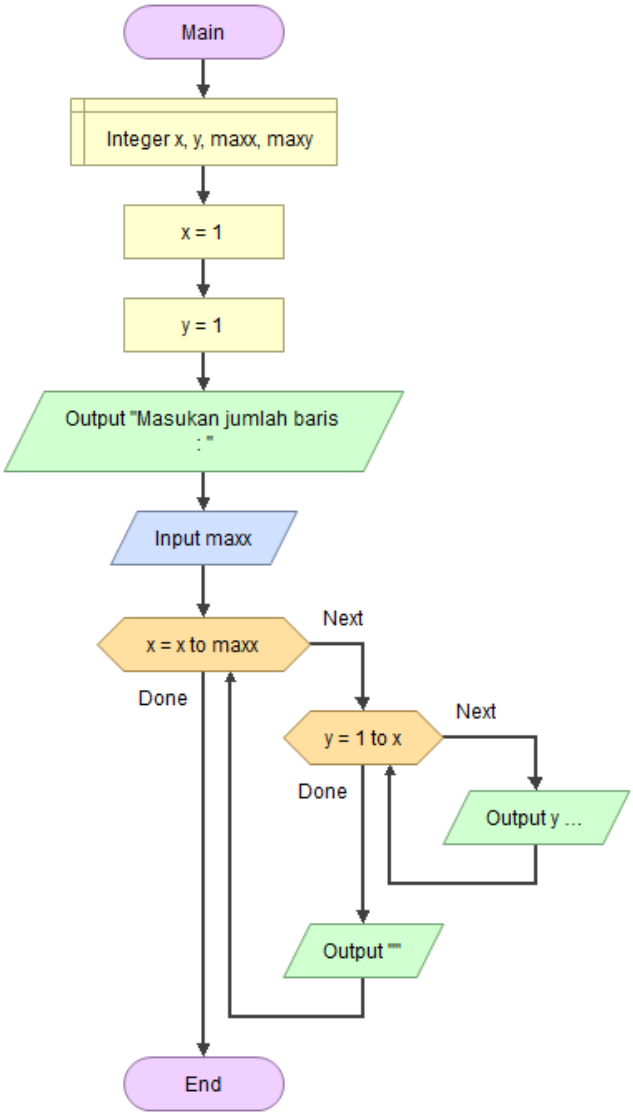
C++

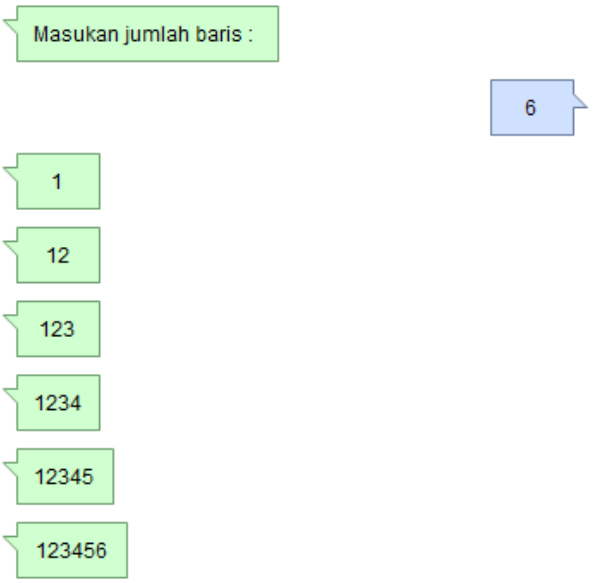


```
int main() {
    int x, y;

    x = 1;
    y = 1;
    while (x <= 5) {
        while (y <= x) {
            cout << y;
            y = y + 1;
        }
        y = 1;
        x = x + 1;
        cout << "" << endl;
    }
    return 0;
}
```

Tugas 3.8

A. Flowchart





B. Code

Python

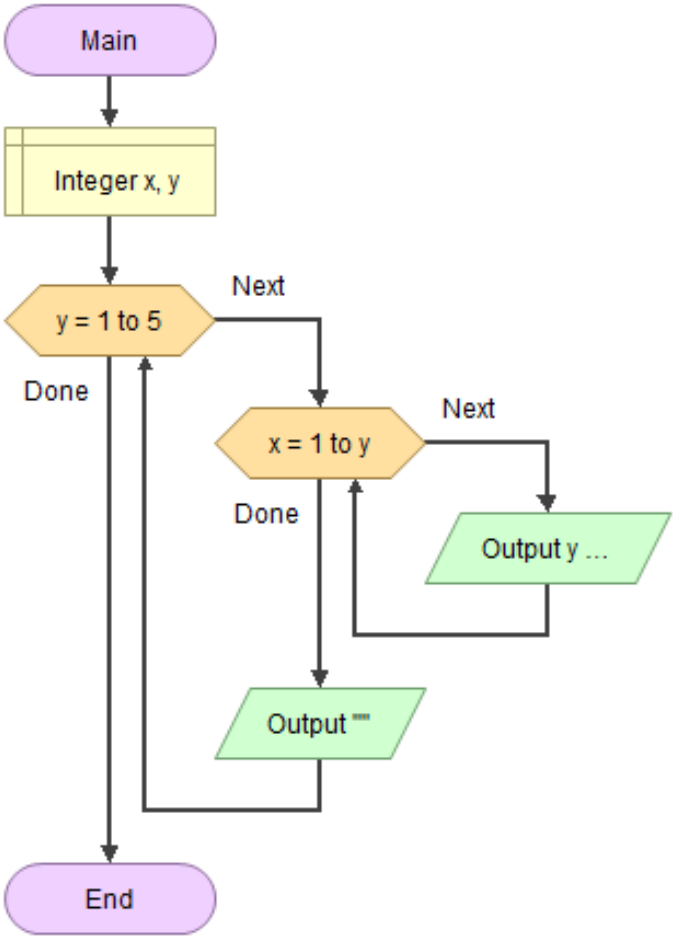
```python
x = 1
y = 1
print("Masukan jumlah baris : ")
maxx = int(input())
for x in range(x, maxx + 1, 1):
    for y in range(1, x + 1, 1):
        print(y, end='', flush=True)
    print("")
```

C++

```cpp
int main() {
    int x, y, maxx, maxy;

    x = 1;
    y = 1;
    cout << "Masukan jumlah baris : " << endl;
    cin >> maxx;
    for (x = x; x <= maxx; x++) {
        for (y = 1; y <= x; y++) {
            cout << y;
        }
        cout << "" << endl;
    }
    return 0;
}
```

Tugas 3.9 For

A. Flowchart



B. Code

Python

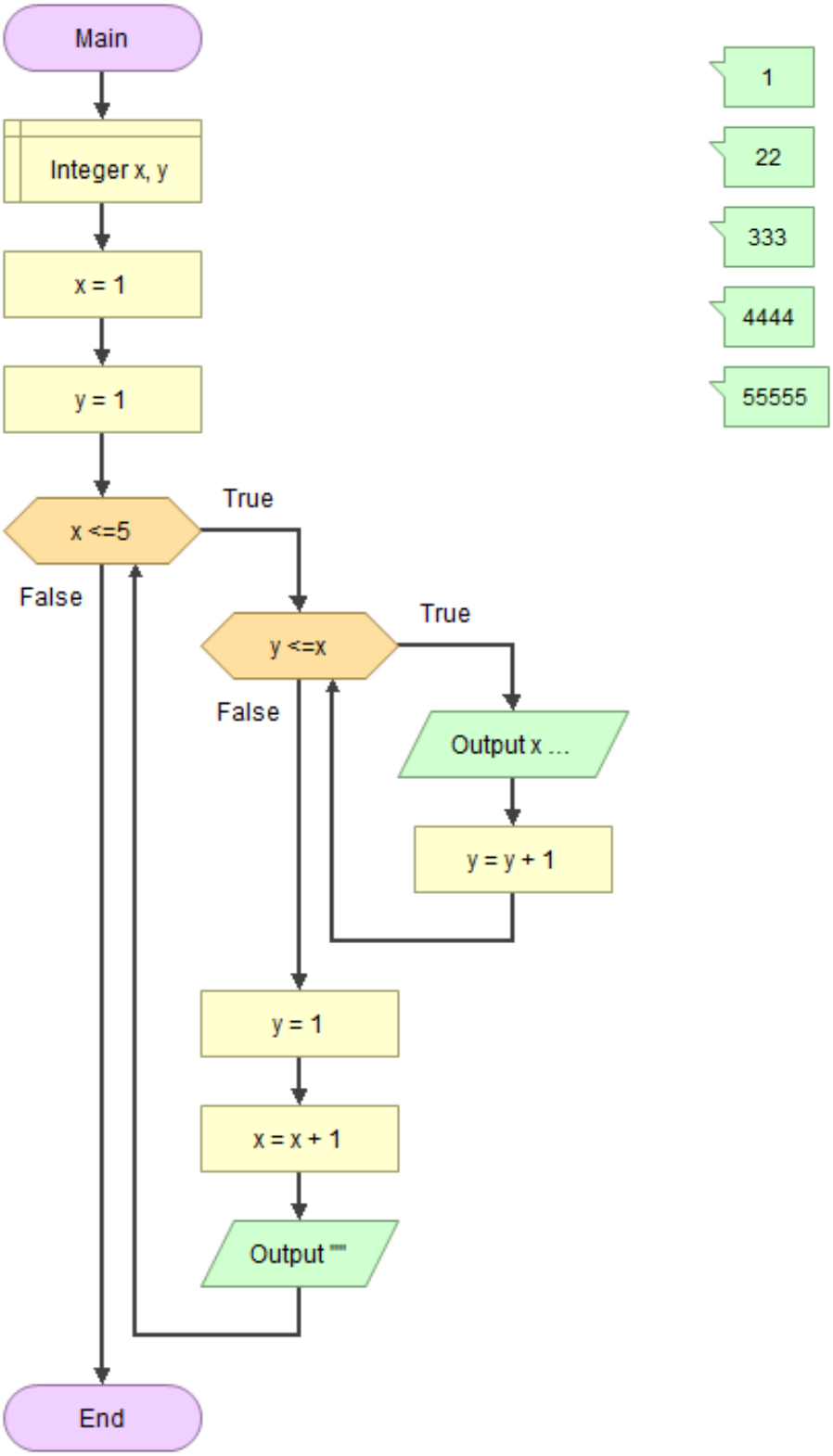
```
0  for y in range(1, 5 + 1, 1):
1      for x in range(1, y + 1, 1):
2          print(y, end='', flush=True)
3      print("")
```

C++

```
13 int main() {
14     int x, y;
15
16     for (y = 1; y <= 5; y++) {
17         for (x = 1; x <= y; x++) {
18             cout << y;
19         }
20         cout << "" << endl;
21     }
22     return 0;
23 }
```

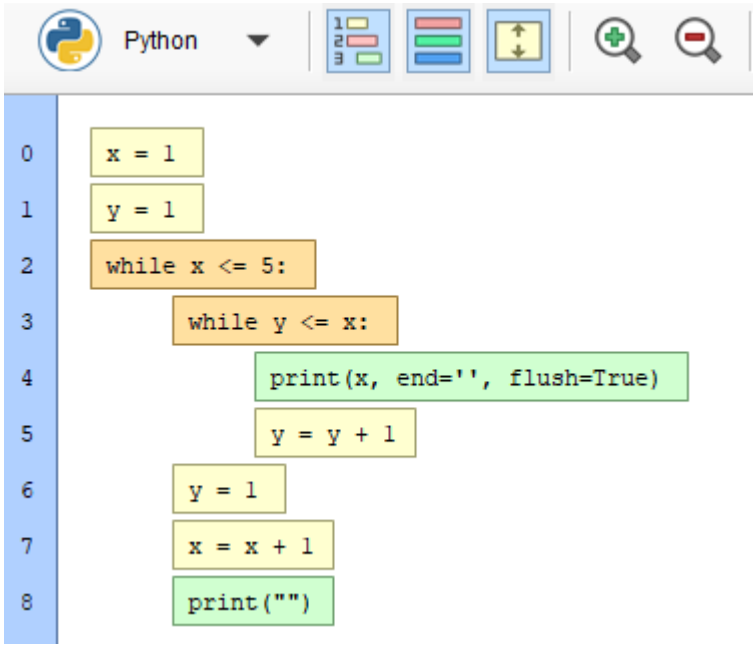
Tugas 3.9 While

A. Flowchart

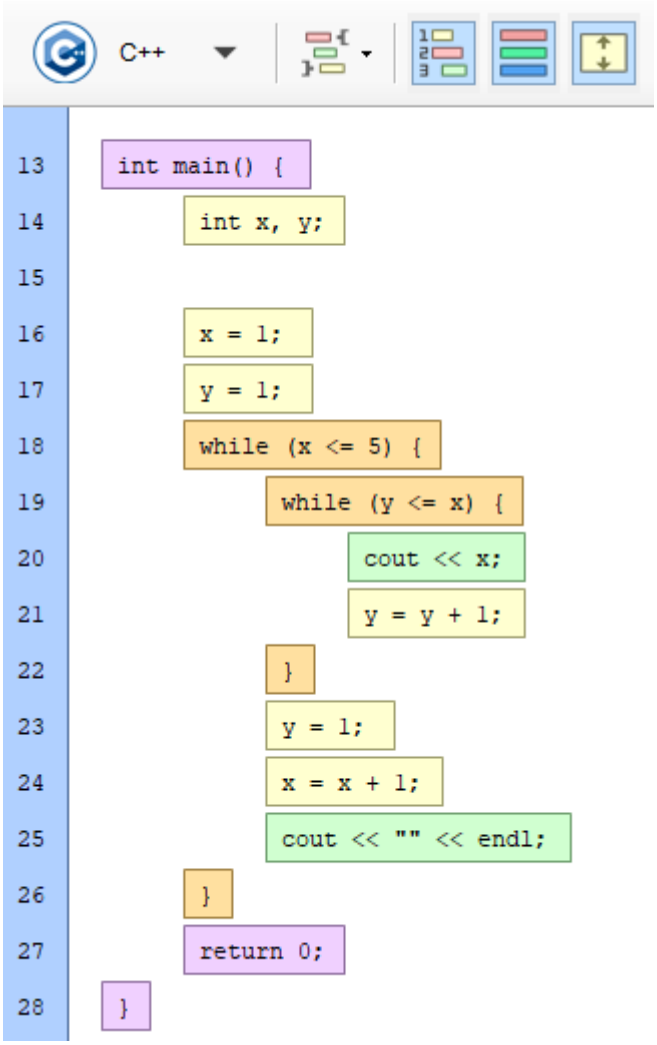


B. Code

Python

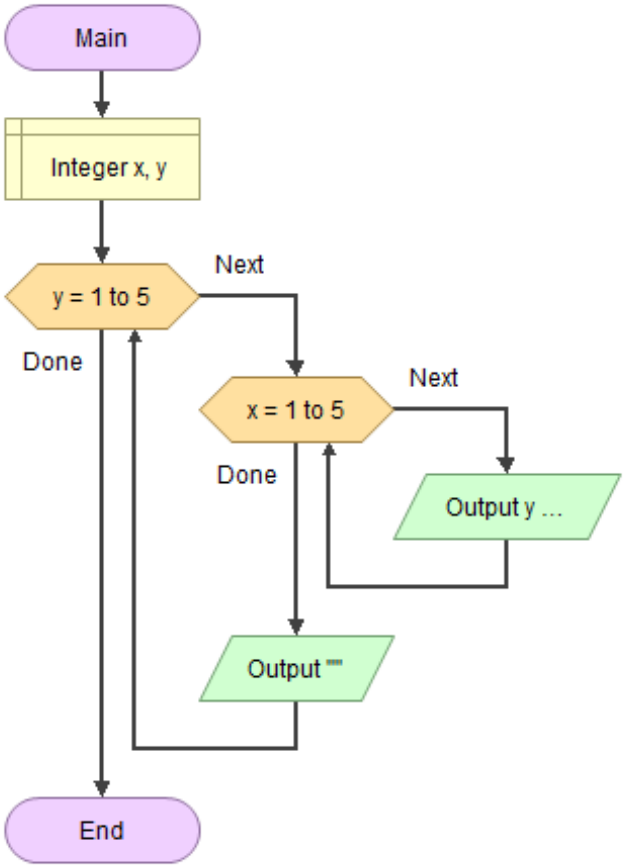


C++



Tugas 3.10 For

A. Flowchart



B. Code

Python

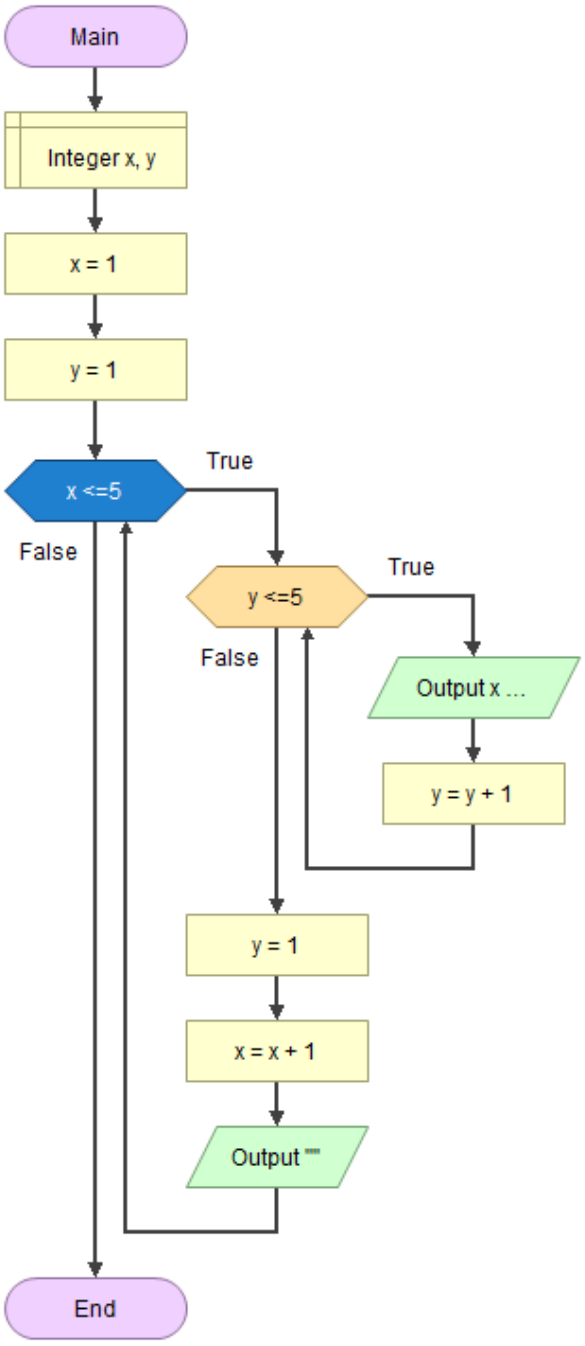
```python
for y in range(1, 5 + 1, 1):
    for x in range(1, 5 + 1, 1):
        print(y, end='', flush=True)
    print("")
```

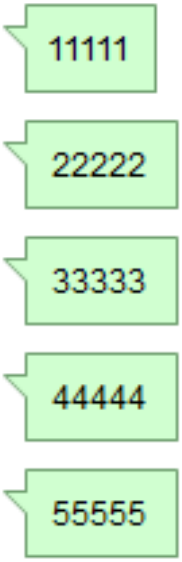
C++

```cpp
int main() {
    int x, y;

    for (y = 1; y <= 5; y++) {
        for (x = 1; x <= 5; x++) {
            cout << y;
        }
        cout << "" << endl;
    }
    return 0;
}
```

Tugas 3.10 While

A. Flowchart





B. Code

Python

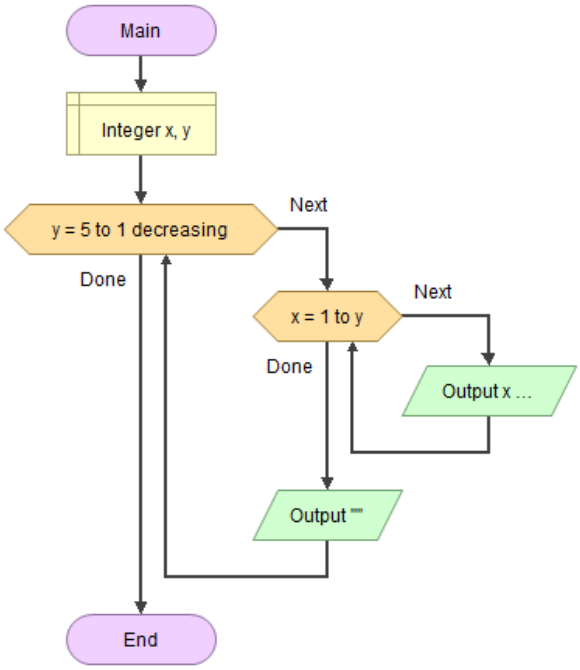
```python
x = 1
y = 1
while x <= 5:
    while y <= 5:
        print(x, end='', flush=True)
        y = y + 1
    y = 1
    x = x + 1
    print("")
```

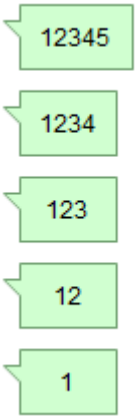
C++

```cpp
int main() {
    int x, y;

    x = 1;
    y = 1;
    while (x <= 5) {
        while (y <= 5) {
            cout << x;
            y = y + 1;
        }
        y = 1;
        x = x + 1;
        cout << "" << endl;
    }
    return 0;
}
```

Tugas 3.11 For

A. Flowchart





B. Code

Python

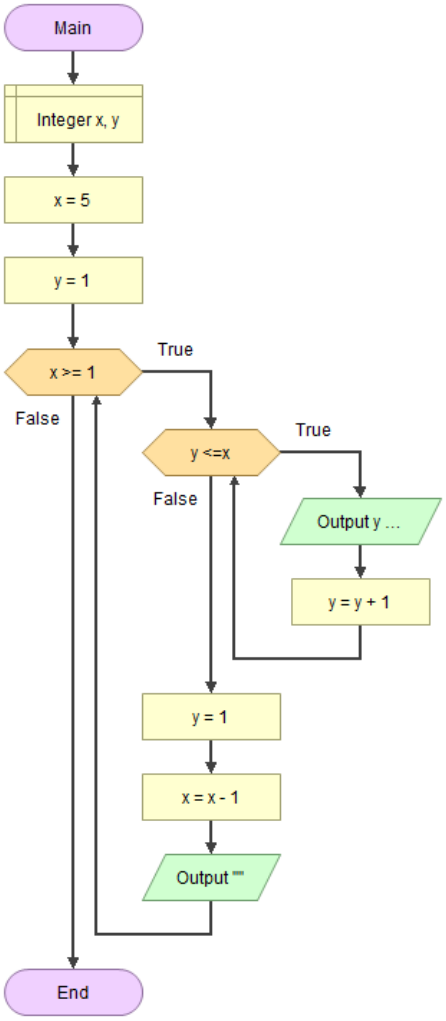
```python
for y in range(5, 1 - 1, -1):
    for x in range(1, y + 1, 1):
        print(x, end='', flush=True)
    print("")
```

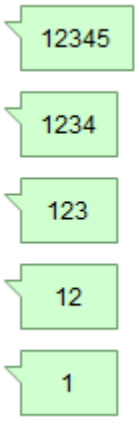
C++

```cpp
int main() {
    int x, y;

    for (y = 5; y >= 1; y--) {
        for (x = 1; x <= y; x++) {
            cout << x;
        }
        cout << "" << endl;
    }
    return 0;
}
```

Tugas 3.11 While

A. Flowchart





B. Code

Python

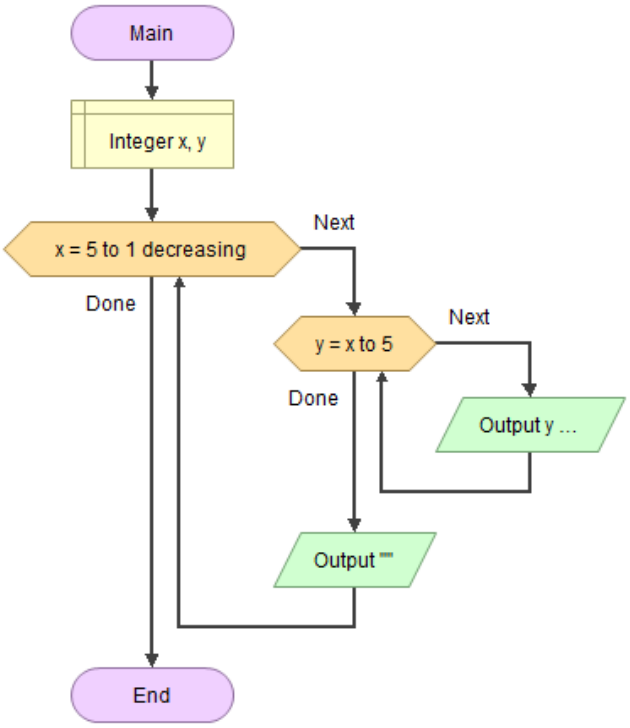
```python
x = 5
y = 1
while x >= 1:
    while y <= x:
        print(y, end='', flush=True)
        y = y + 1
    y = 1
    x = x - 1
    print("")
```

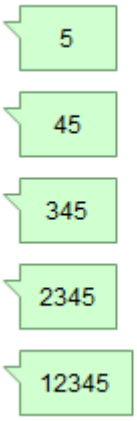
C++

```cpp
int main() {
    int x, y;

    x = 5;
    y = 1;
    while (x >= 1) {
        while (y <= x) {
            cout << y;
            y = y + 1;
        }
        y = 1;
        x = x - 1;
        cout << "" << endl;
    }
    return 0;
}
```

Tugas 3.12 For

A. Flowchart





B. Code

Python

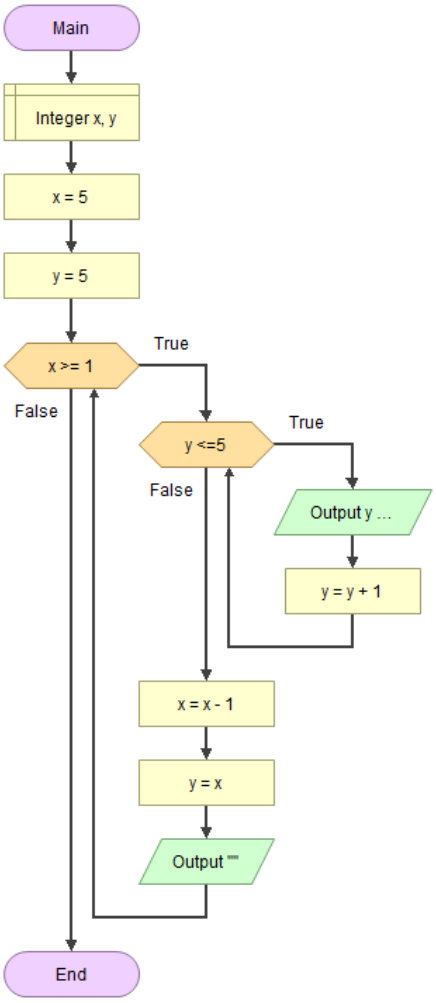
```python
for x in range(5, 1 - 1, -1):
    for y in range(x, 5 + 1, 1):
        print(y, end='', flush=True)
    print("")
```

C++

```cpp
int main() {
    int x, y;

    for (x = 5; x >= 1; x--) {
        for (y = x; y <= 5; y++) {
            cout << y;
        }
        cout << "" << endl;
    }
    return 0;
}
```

Tugas 3.12 While

A. Flowchart



B. Code

Python

```
x = 5
y = 5
while x >= 1:
    while y <= 5:
        print(y, end='', flush=True)
        y = y + 1
    x = x - 1
    y = x
    print("")
```

C++

```
int main() {
    int x, y;

    x = 5;
    y = 5;
    while (x >= 1) {
        while (y <= 5) {
            cout << y;
            y = y + 1;
        }
        x = x - 1;
        y = x;
        cout << "" << endl;
    }
    return 0;
}
```