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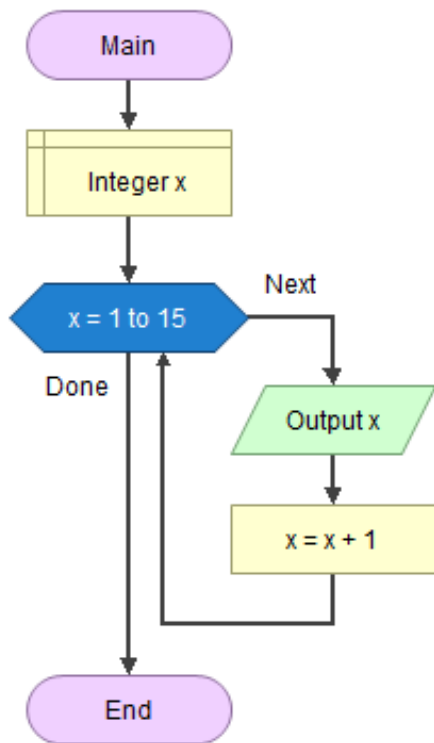
Kelas : A

BP : 029

### Latihan 3.1 :

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

#### A. Flowchart



1  
3  
5  
7  
9  
11  
13  
15

#### B. Code Python

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

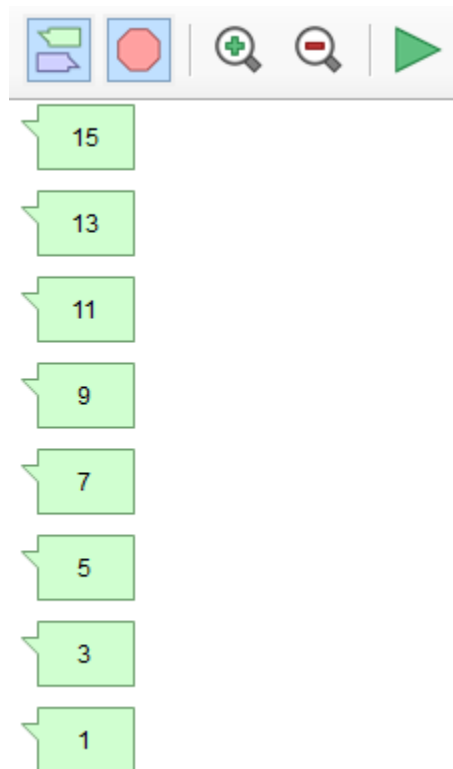
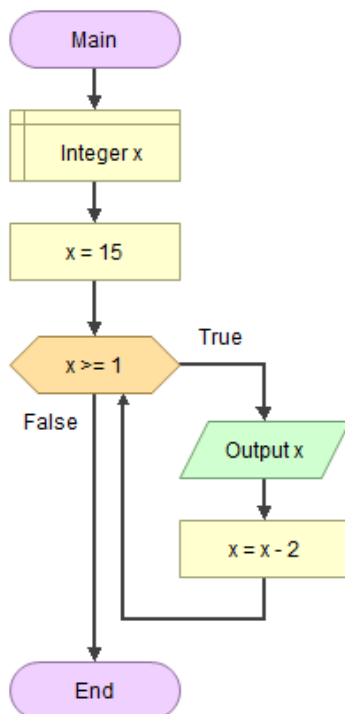
#### C++

```
C++
13 int main() {
14     int x;
15
16     for (x = 1; x <= 15; x++) {
17         cout << x << endl;
18         x = x + 1;
19     }
20     return 0;
21 }
```

### Tugas 3.1

Menampilkan bilangan GANJIL dari 15 sampai dengan 1 menggunakan Perulangan While

#### A. Flowchart



#### B. Code Python

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

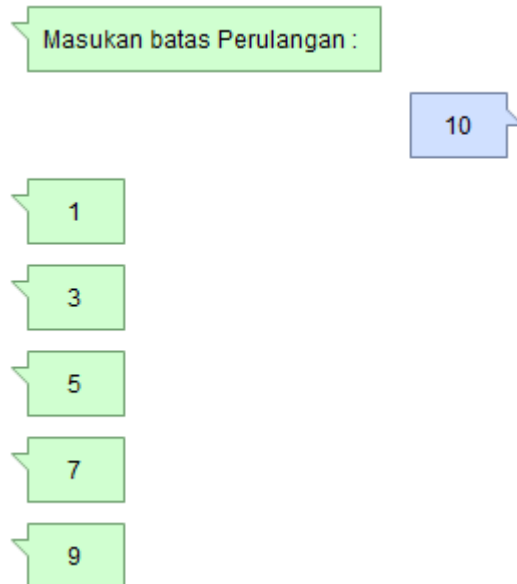
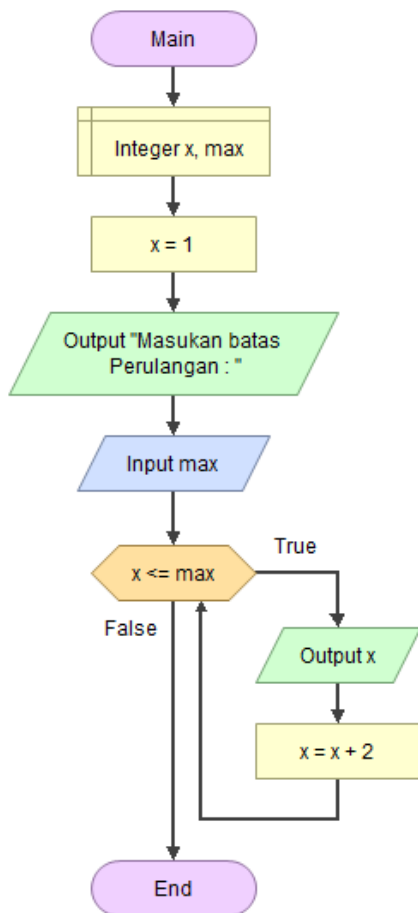
#### C++

```
C++
13 int main() {
14     int x;
15
16     x = 15;
17     while (x >= 1) {
18         cout << x << endl;
19         x = x - 2;
20     }
21     return 0;
22 }
```

## 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

```
Python
0 x = 1
1 print("Masukan batas Perulangan : ")
2 max = int(input())
3 while x <= max:
4     print(x)
5     x = x + 2
```

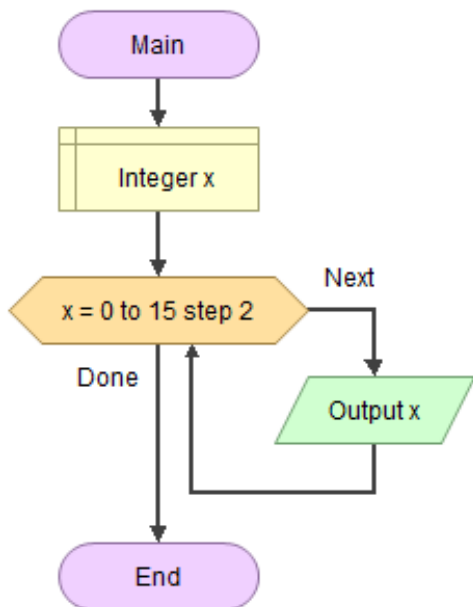
### C++

```
C++
13 int main() {
14     int x, max;
15
16     x = 1;
17     cout << "Masukan batas Perulangan : " << endl;
18     cin >> max;
19     while (x <= max) {
20         cout << x << endl;
21         x = x + 2;
22     }
23     return 0;
24 }
```

### Tugas 3.3 For

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

#### A. Flowchart



0  
2  
4  
6  
8  
10  
12  
14

#### B. Code Python

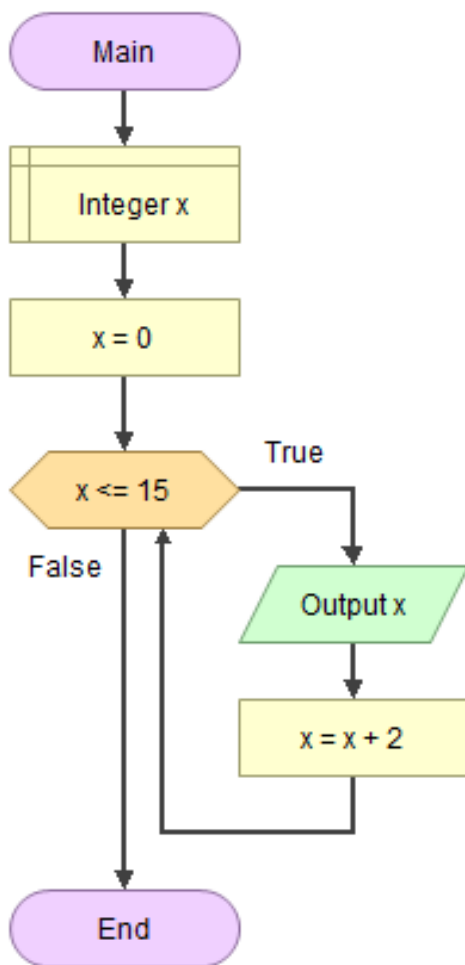
```
Python  
0 for x in range(0, 15 + 2, 2):  
1     print(x)
```

#### C++

```
C++  
13 int main() {  
14     int x;  
15  
16     for (x = 0; x <= 15; x += 2) {  
17         cout << x << endl;  
18     }  
19     return 0;  
20 }
```

## Tugas 3.3 While

### A. Flowchart



0  
2  
4  
6  
8  
10  
12  
14

### B. Code

Python

```
Python
1 x = 0
2 while x <= 15:
3     print(x)
4     x = x + 2
```

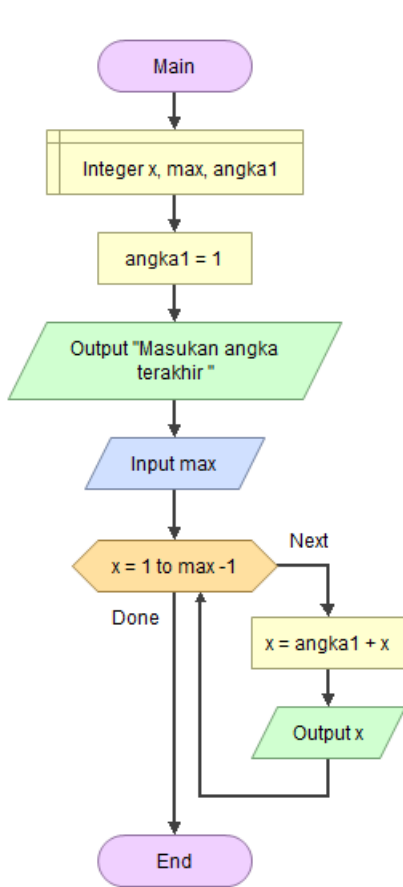
### C++

```
C++
13 int main() {
14     int x;
15
16     x = 0;
17     while (x <= 15) {
18         cout << x << endl;
19         x = x + 2;
20     }
21     return 0;
22 }
```

### 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



Masukan angka terakhir

13

2  
4  
6  
8  
10  
12

#### B. Code Python

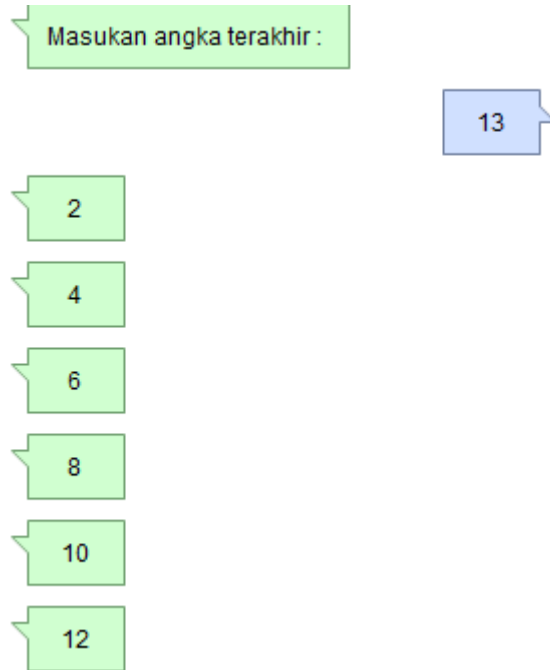
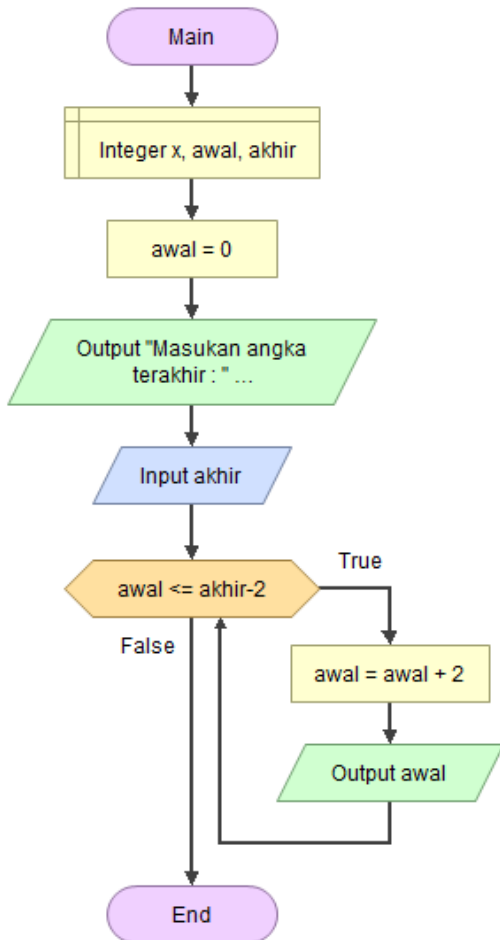
```
Python
0  angka1 = 1
1  print("Masukan angka terakhir ")
2  max = int(input())
3  for x in range(1, max - 1 + 1, 1):
4      x = angka1 + x
5      print(x)
```

#### C++

```
C++
13  int main() {
14      int x, max, angka1;
15
16      angka1 = 1;
17      cout << "Masukan angka terakhir " << endl;
18      cin >> max;
19      for (x = 1; x <= max - 1; x++) {
20          x = angka1 + x;
21          cout << x << endl;
22      }
23      return 0;
24  }
```

## Tugas 3.4 While

### A. Flowchart



### B. Code

#### Python

```
Python
1  awal = 0
2  print("Masukan angka terakhir : ", end='', flush=True)
3  akhir = int(input())
4  while awal <= akhir - 2:
5      awal = awal + 2
6      print(awal)
```

#### C++

```
C++
13 int main() {
14     int x, awal, akhir;
15
16     awal = 0;
17     cout << "Masukan angka terakhir : ";
18     cin >> akhir;
19     while (awal <= akhir - 2) {
20         awal = awal + 2;
21         cout << awal << endl;
22     }
23     return 0;
24 }
```

## Latihan 3.2

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

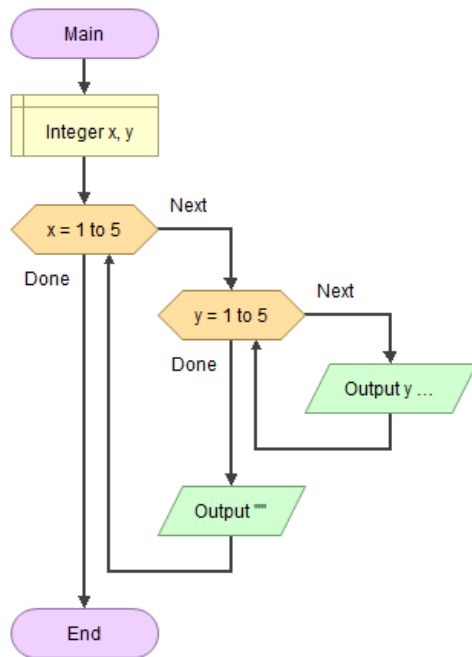
12345

12345

12345

12345

### A. Flowchart



12345

12345

12345

12345

12345

### B. Code

Python

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

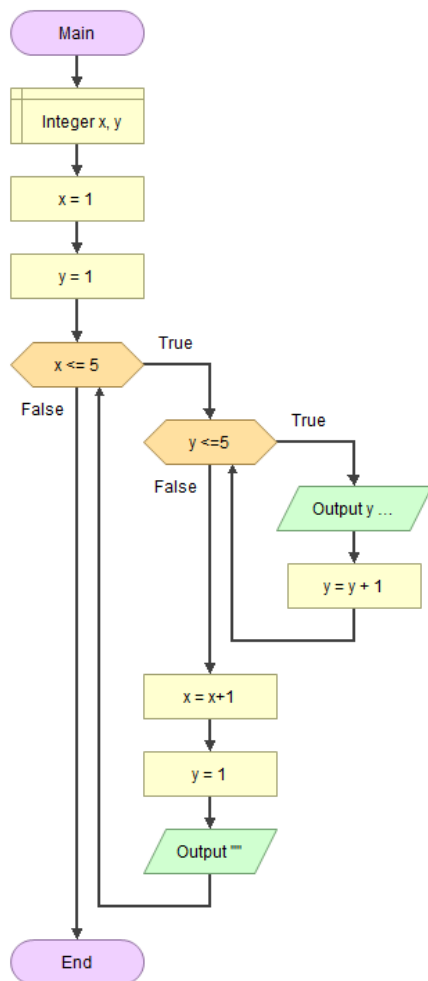
C++

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



## Tugas 3.5

### A. Flowchart



12345

12345

12345

12345

12345

### C++

```
13 int main() {
14     int x, y;
15
16     x = 1;
17     y = 1;
18     while (x <= 5) {
19         while (y <= 5) {
20             cout << y;
21             y = y + 1;
22         }
23         x = x + 1;
24         y = 1;
25         cout << " " << endl;
26     }
27     return 0;
28 }
```

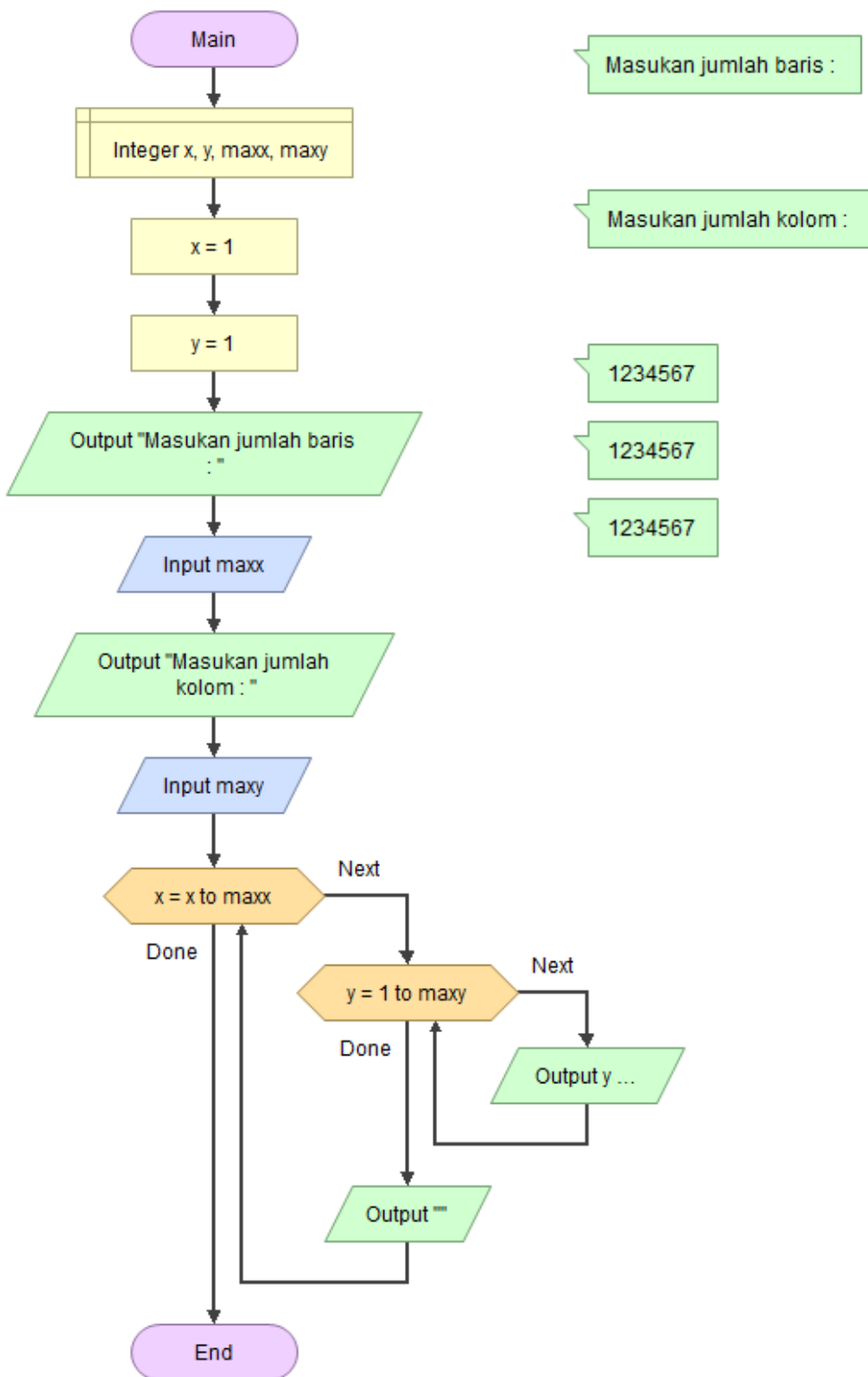
### B. Code

#### Python

```
0 x = 1
1 y = 1
2 while x <= 5:
3     while y <= 5:
4         print(y, end='', flush=True)
5         y = y + 1
6     x = x + 1
7     y = 1
8     print("")
```

## Tugas 3.6 For

### A. Flowchart



Masukan jumlah baris :

3

Masukan jumlah kolom :

7

1234567

1234567

1234567

Output y ...

Output "

## B. Code

### Python

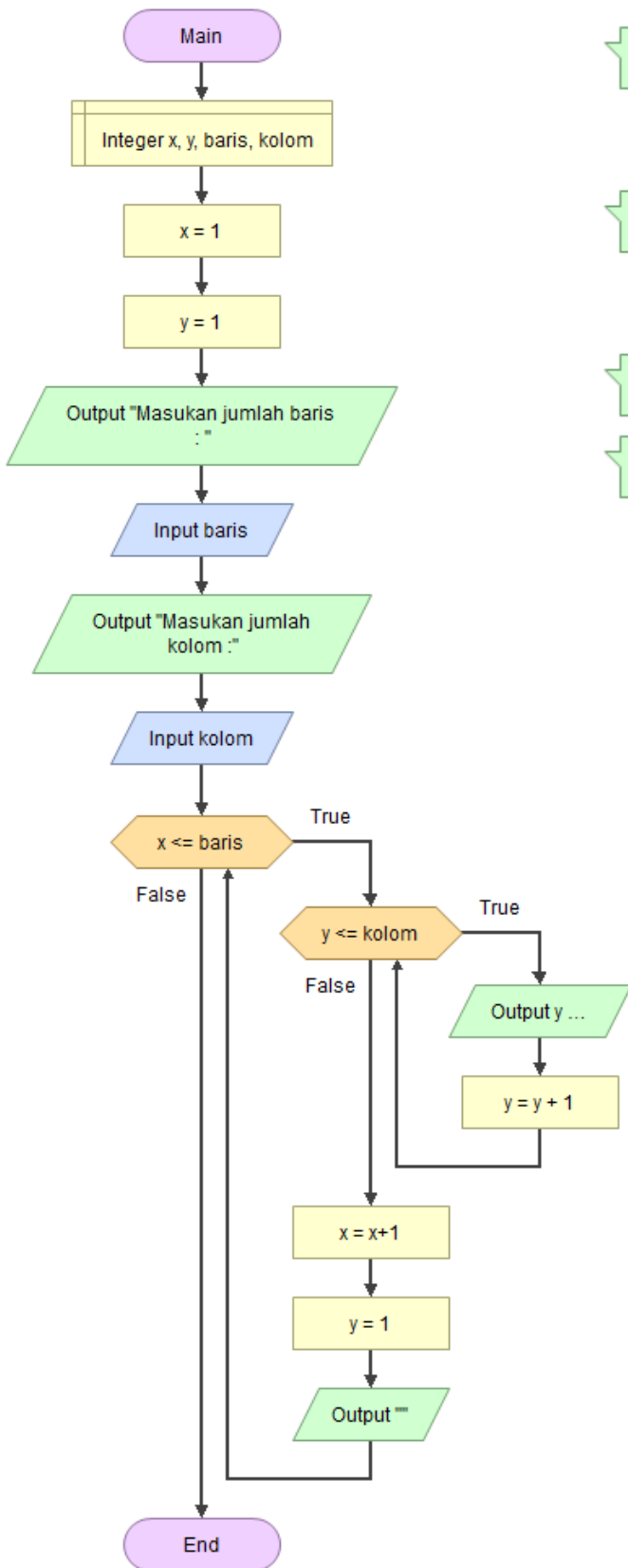
```
Python
1
2
3
4
5
6
7
8
9
0 x = 1
1 y = 1
2 print("Masukan jumlah baris : ")
3 maxx = int(input())
4 print("Masukan jumlah kolom : ")
5 maxy = int(input())
6 for x in range(x, maxx + 1, 1):
7     for y in range(1, maxy + 1, 1):
8         print(y, end='', flush=True)
9     print("")
```

### C++

```
C++
13 int main() {
14     int x, y, maxx, maxy;
15
16     x = 1;
17     y = 1;
18     cout << "Masukan jumlah baris : " << endl;
19     cin >> maxx;
20     cout << "Masukan jumlah kolom : " << endl;
21     cin >> maxy;
22     for (x = x; x <= maxx; x++) {
23         for (y = 1; y <= maxy; y++) {
24             cout << y;
25         }
26         cout << "" << endl;
27     }
28     return 0;
29 }
```

## Tugas 3.6 While

### A . Flowchart



Masukan jumlah baris :

2

Masukan jumlah kolom :

7

1234567

1234567

## B. Code

### Python

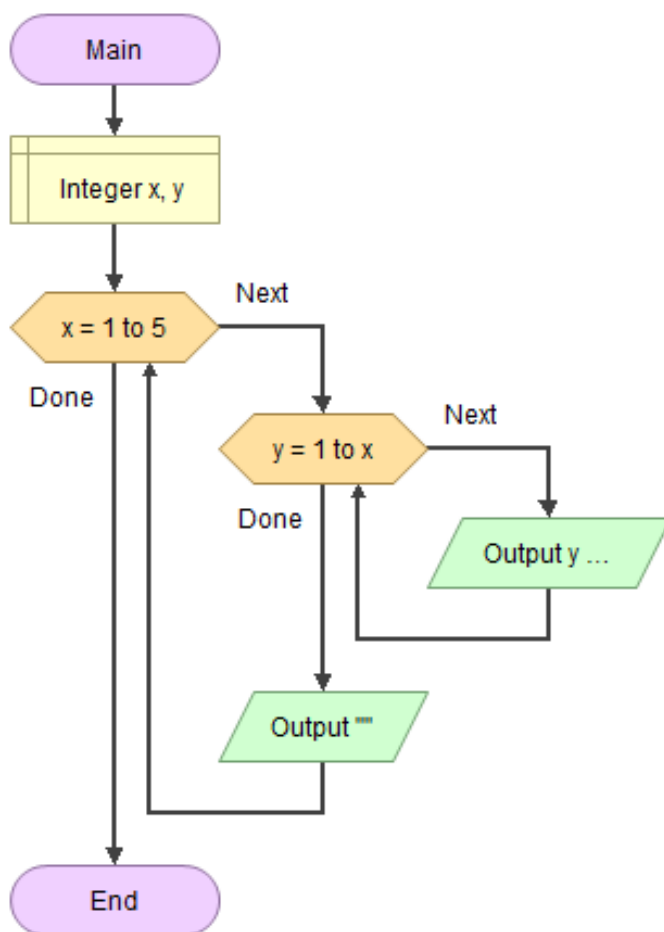
```
Python
1 x = 1
2 y = 1
3 print("Masukan jumlah baris : ")
4 baris = int(input())
5 print("Masukan jumlah kolom :")
6 kolom = int(input())
7 while x <= baris:
8     while y <= kolom:
9         print(y, end='', flush=True)
10        y = y + 1
11    x = x + 1
12    y = 1
13    print("")
```

### C++

```
C++
13 int main() {
14     int x, y, baris, kolom;
15
16     x = 1;
17     y = 1;
18     cout << "Masukan jumlah baris : " << endl;
19     cin >> baris;
20     cout << "Masukan jumlah kolom : " << endl;
21     cin >> kolom;
22     while (x <= baris) {
23         while (y <= kolom) {
24             cout << y;
25             y = y + 1;
26         }
27         x = x + 1;
28         y = 1;
29         cout << "" << endl;
30     }
31     return 0;
32 }
```

### Latihan 3.3

#### A. FLOWchart



1  
12  
123  
1234  
12345

#### B. Code

##### Python

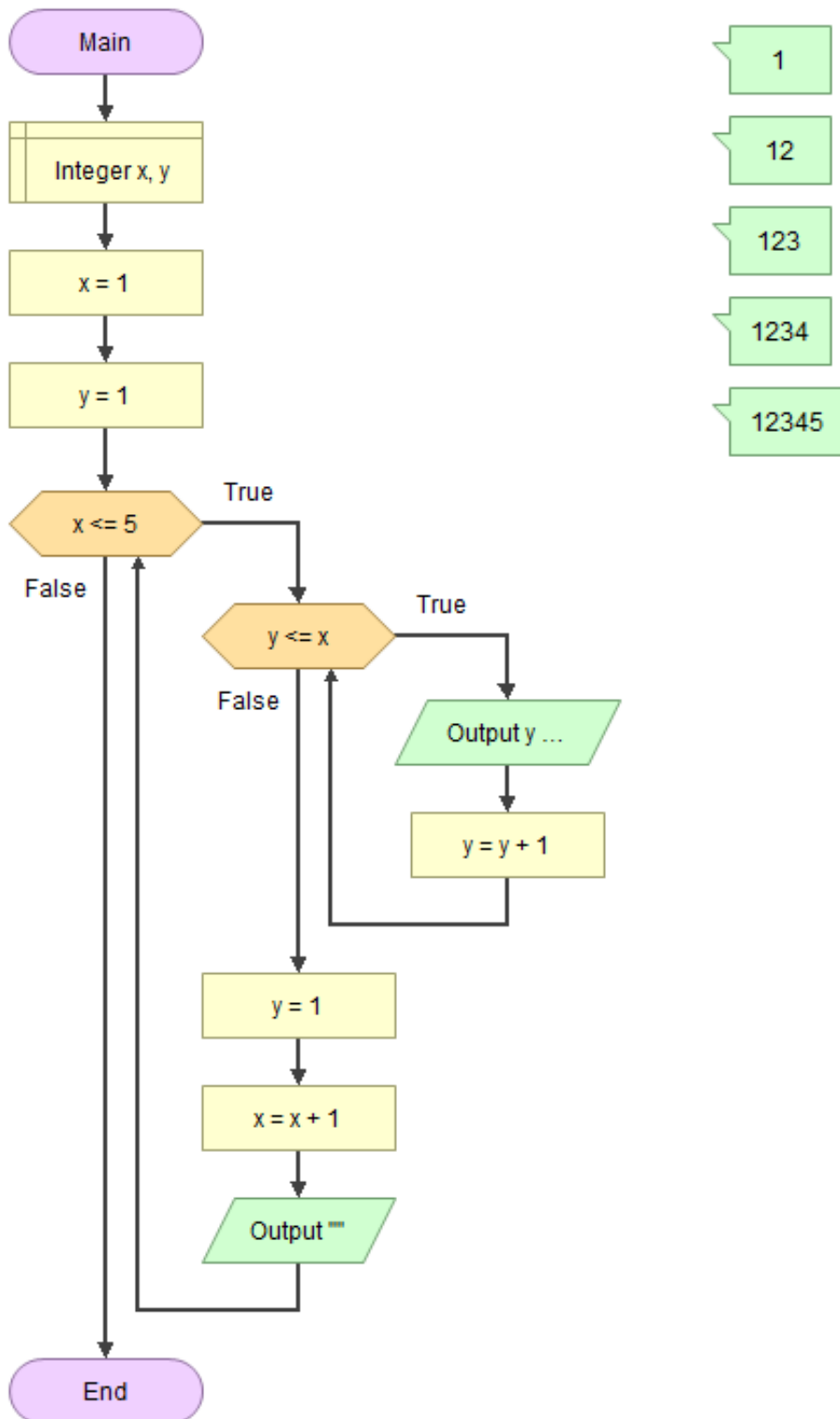
```
Python
0 for x in range(1, 5 + 1, 1):
1     for y in range(1, x + 1, 1):
2         print(y, end='', flush=True)
3     print("")
```

##### C++

```
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



```
0 x = 1
1 y = 1
2 while x <= 5:
3     while y <= x:
4         print(y, end='', flush=True)
5         y = y + 1
6     y = 1
7     x = x + 1
8     print("")
```

### C++

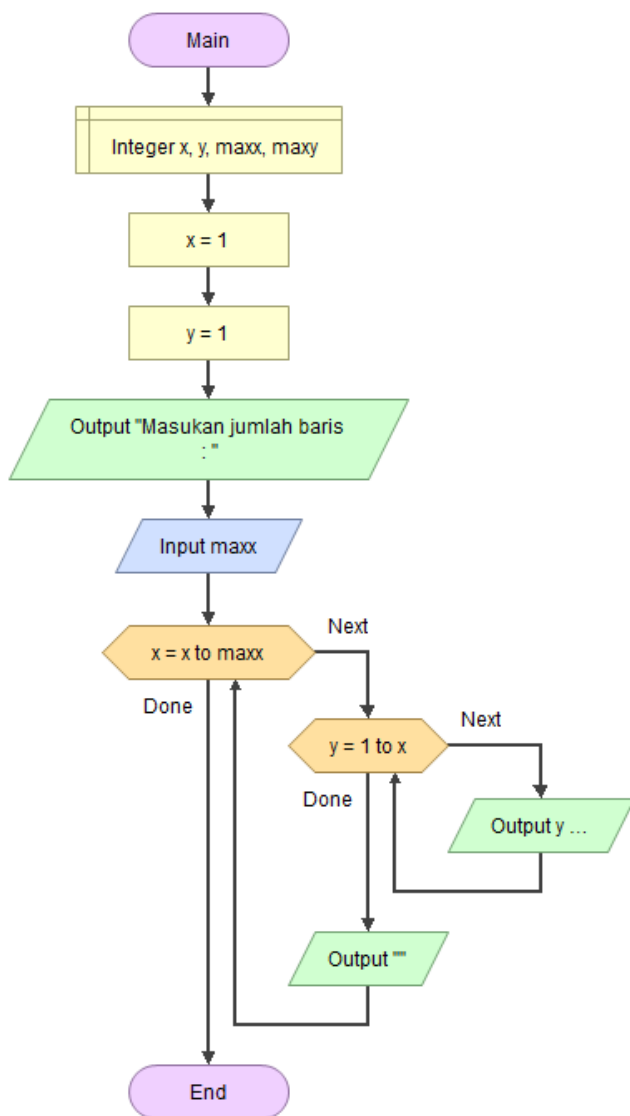


```
13 int main() {
14     int x, y;
15
16     x = 1;
17     y = 1;
18     while (x <= 5) {
19         while (y <= x) {
20             cout << y;
21             y = y + 1;
22         }
23         y = 1;
24         x = x + 1;
25         cout << "" << endl;
26     }
27     return 0;
28 }
```



## Tugas 3.8

### A. Flowchart



### B. Code

#### Python

```
Python
0 x = 1
1 y = 1
2 print("Masukan jumlah baris : ")
3 maxx = int(input())
4 for x in range(x, maxx + 1, 1):
5     for y in range(1, x + 1, 1):
6         print(y, end='', flush=True)
7     print("")
```

#### C++

```
C++
13 int main() {
14     int x, y, maxx, maxy;
15
16     x = 1;
17     y = 1;
18     cout << "Masukan jumlah baris : " << endl;
19     cin >> maxx;
20     for (x = x; x <= maxx; x++) {
21         for (y = 1; y <= x; y++) {
22             cout << y;
23         }
24         cout << "" << endl;
25     }
26     return 0;
27 }
```

Masukan jumlah baris :

6

1

12

123

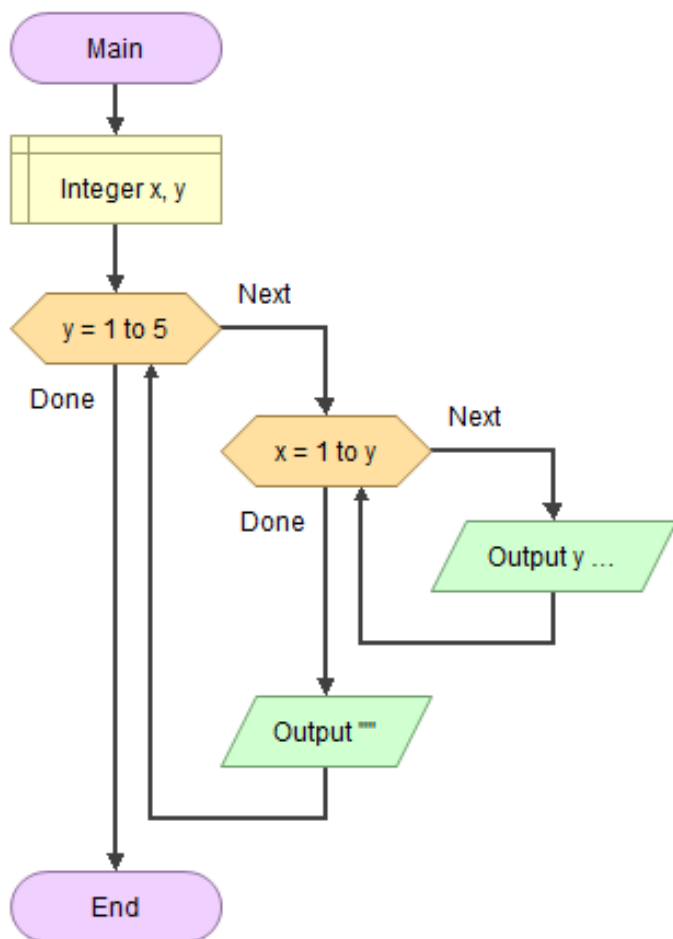
1234

12345

123456

## Tugas 3.9 For

### A. Flowchart



1  
22  
333  
4444  
55555

### B. Code

#### Python

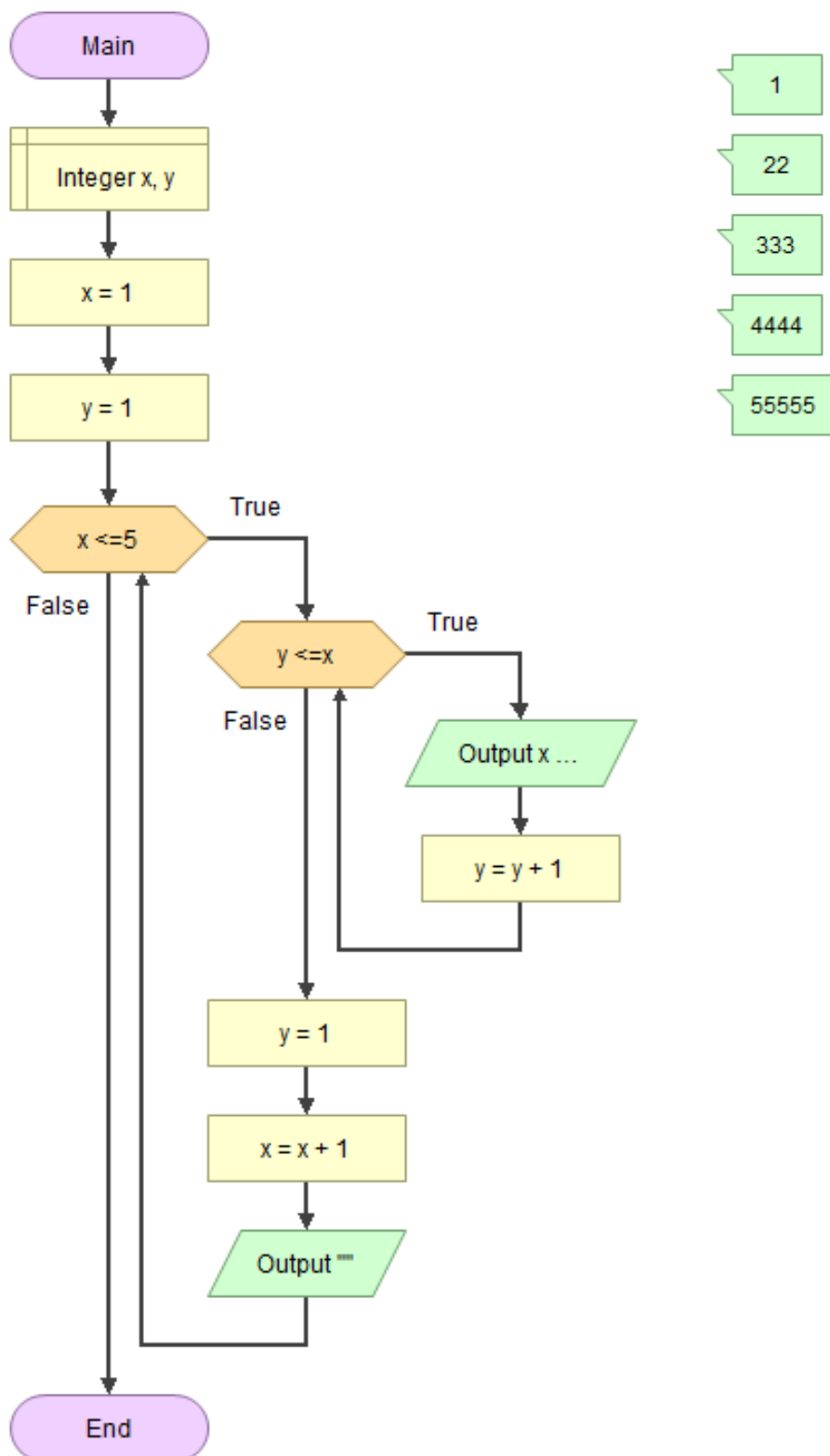
```
Python
0 for y in range(1, 5 + 1, 1):
1     for x in range(1, y + 1, 1):
2         print(y, end='', flush=True)
3     print("")
```

#### C++

```
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 }
```

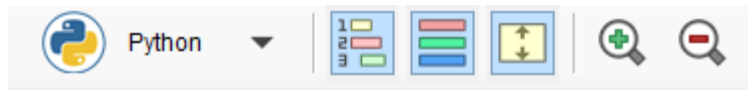
### Tugas 3.9 While

#### A. Flowchart




## B. Code

### Python



```
0 x = 1
1 y = 1
2 while x <= 5:
3     while y <= x:
4         print(x, end='', flush=True)
5         y = y + 1
6     y = 1
7     x = x + 1
8     print("")
```

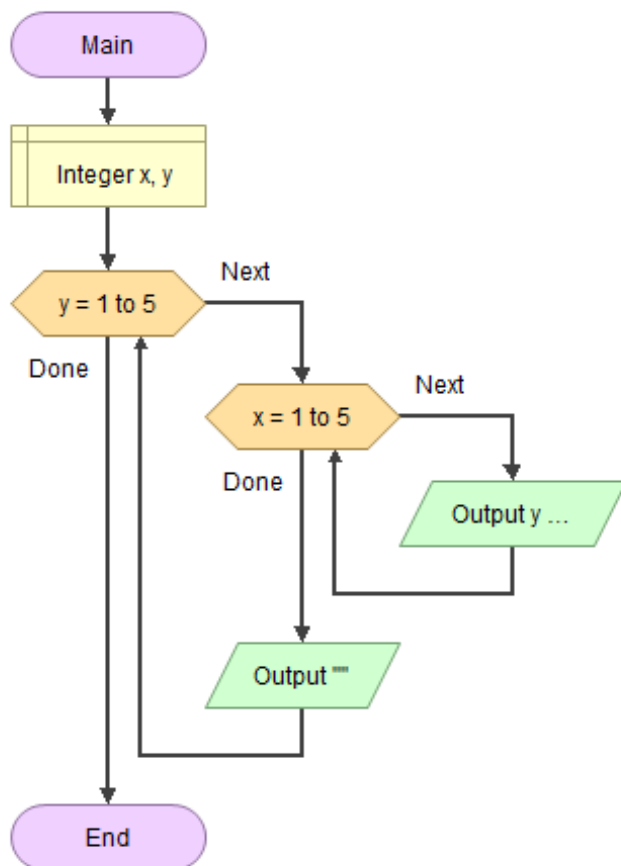
### C++



```
13 int main() {
14     int x, y;
15
16     x = 1;
17     y = 1;
18     while (x <= 5) {
19         while (y <= x) {
20             cout << x;
21             y = y + 1;
22         }
23         y = 1;
24         x = x + 1;
25         cout << "" << endl;
26     }
27     return 0;
28 }
```

## Tugas 3.10 For

### A. Flowchart



11111  
22222  
33333  
44444  
55555

### B. Code

#### Python

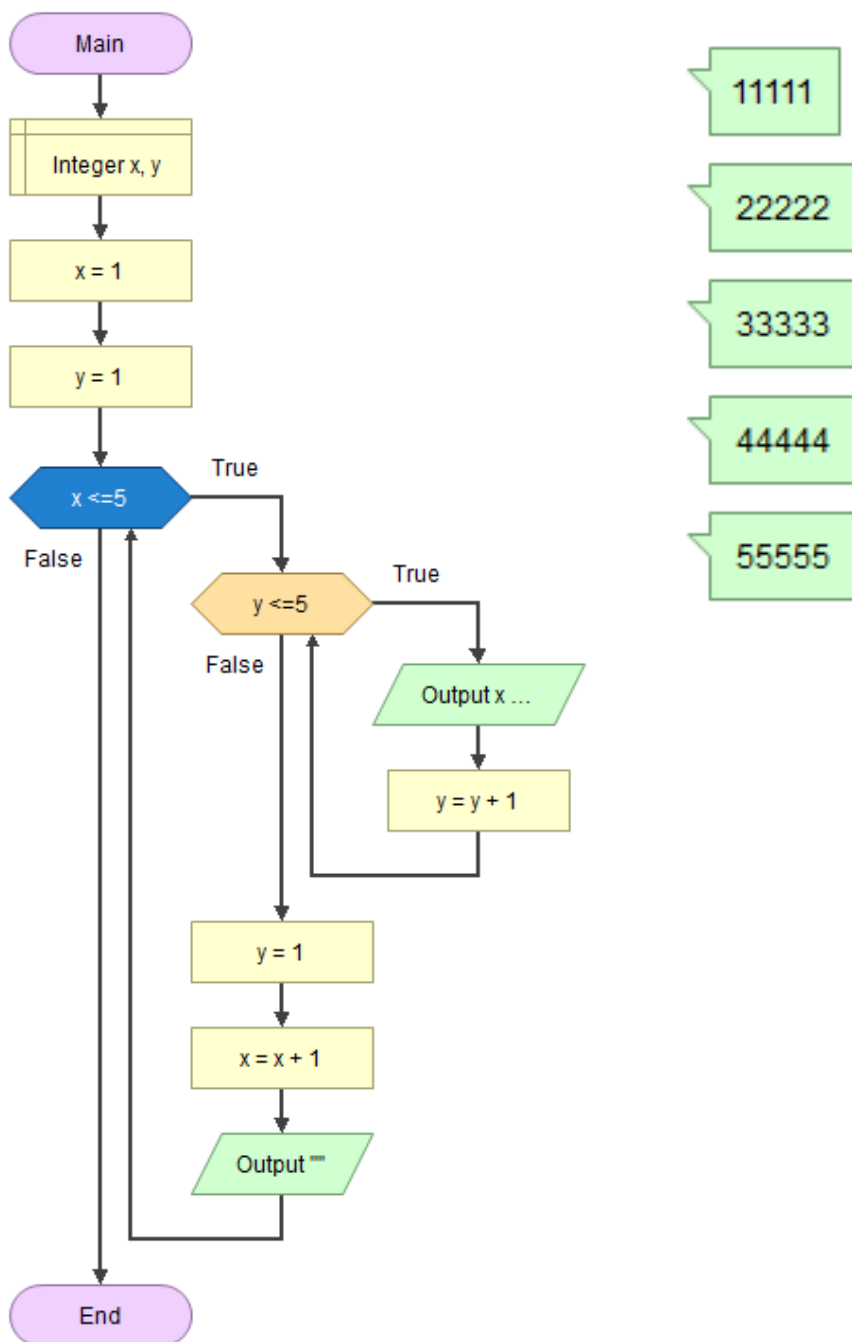
```
0 for y in range(1, 5 + 1, 1):
1     for x in range(1, 5 + 1, 1):
2         print(y, end='', flush=True)
3     print("")
```

#### C++

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

### Tugas 3.10 While

#### A. Flowchart



## B. Code

### Python

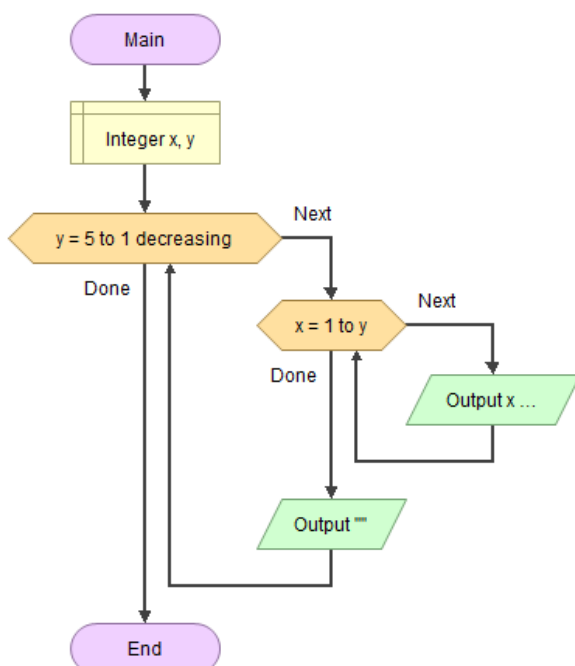
```
Python
0  x = 1
1  y = 1
2  while x <= 5:
3      while y <= 5:
4          print(x, end='', flush=True)
5          y = y + 1
6      y = 1
7      x = x + 1
8      print("")
```

### C++

```
C++
13  int main() {
14      int x, y;
15
16      x = 1;
17      y = 1;
18      while (x <= 5) {
19          while (y <= 5) {
20              cout << x;
21              y = y + 1;
22          }
23          y = 1;
24          x = x + 1;
25          cout << " " << endl;
26      }
27      return 0;
28  }
```


## Tugas 3.11 For

### A. Flowchart




## B. Code

Python



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

C++

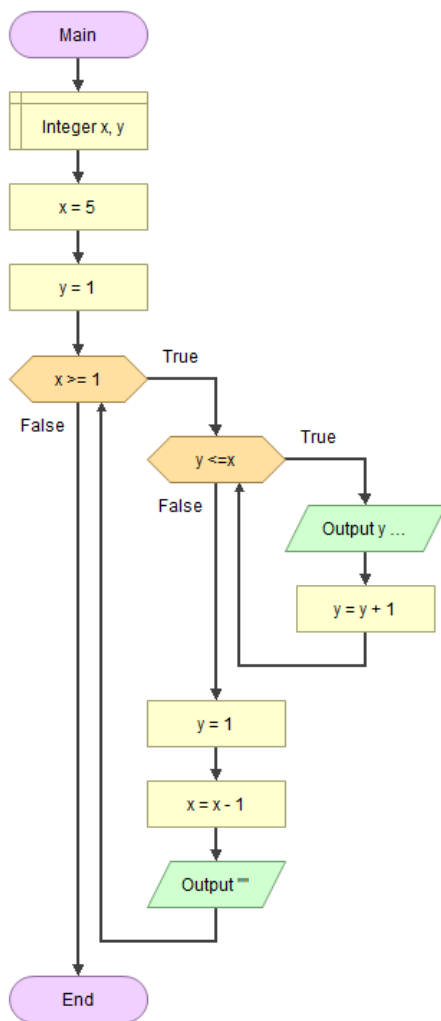


```
13 int main() {
14     int x, y;
15
16     for (y = 5; y >= 1; y--) {
17         for (x = 1; x <= y; x++) {
18             cout << x;
19         }
20         cout << "" << endl;
21     }
22     return 0;
23 }
```



## Tugas 3.11 While

### A. Flowchart



12345  
1234  
123  
12  
1

### B. Code

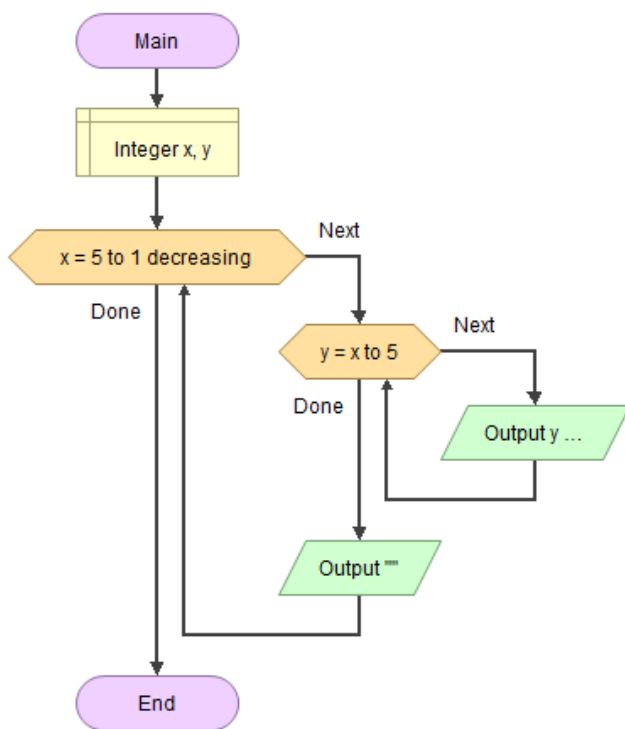
#### Python

```
Python
1 x = 5
2 y = 1
3 while x >= 1:
4     while y <= x:
5         print(y, end='', flush=True)
6         y = y + 1
7     y = 1
8     x = x - 1
9     print("")
```

#### C++

```
C++
13 int main() {
14     int x, y;
15
16     x = 5;
17     y = 1;
18     while (x >= 1) {
19         while (y <= x) {
20             cout << y;
21             y = y + 1;
22         }
23         y = 1;
24         x = x - 1;
25         cout << "" << endl;
26     }
27     return 0;
28 }
```


### A. Flowchart



5  
45  
345  
2345  
12345

### B. Code

# Python



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

## C++

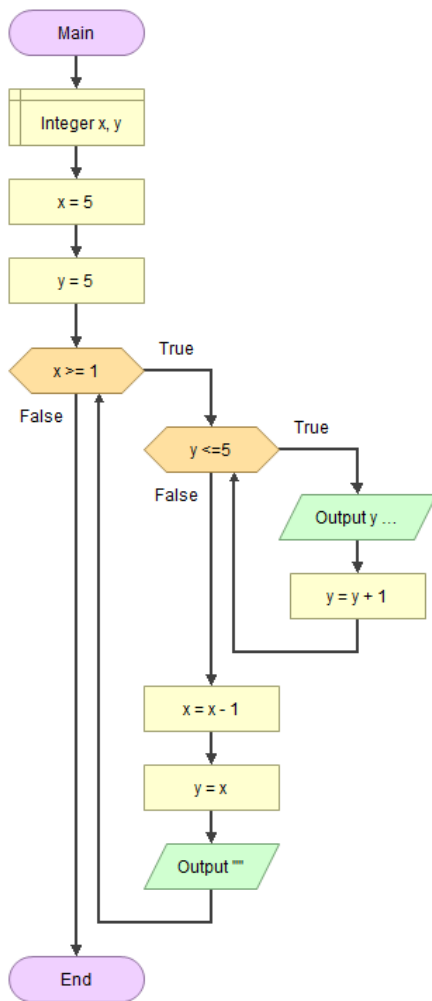
```

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

```

## Tugas 3.12 While

### A. Flowchart



5  
45  
345  
2345  
12345

### B. Code

#### Python

```
Python
0 x = 5
1 y = 5
2 while x >= 1:
3     while y <= 5:
4         print(y, end='', flush=True)
5         y = y + 1
6     x = x - 1
7     y = x
8     print("")
```

#### C++

```
C++
13 int main() {
14     int x, y;
15
16     x = 5;
17     y = 5;
18     while (x >= 1) {
19         while (y <= 5) {
20             cout << y;
21             y = y + 1;
22         }
23         x = x - 1;
24         y = x;
25         cout << "" << endl;
26     }
27     return 0;
28 }
```