

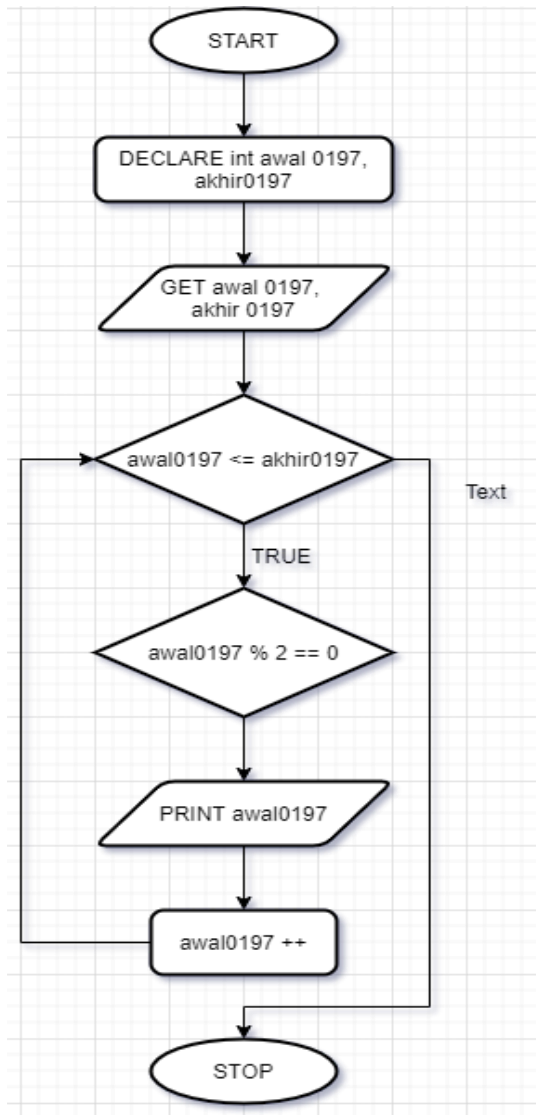
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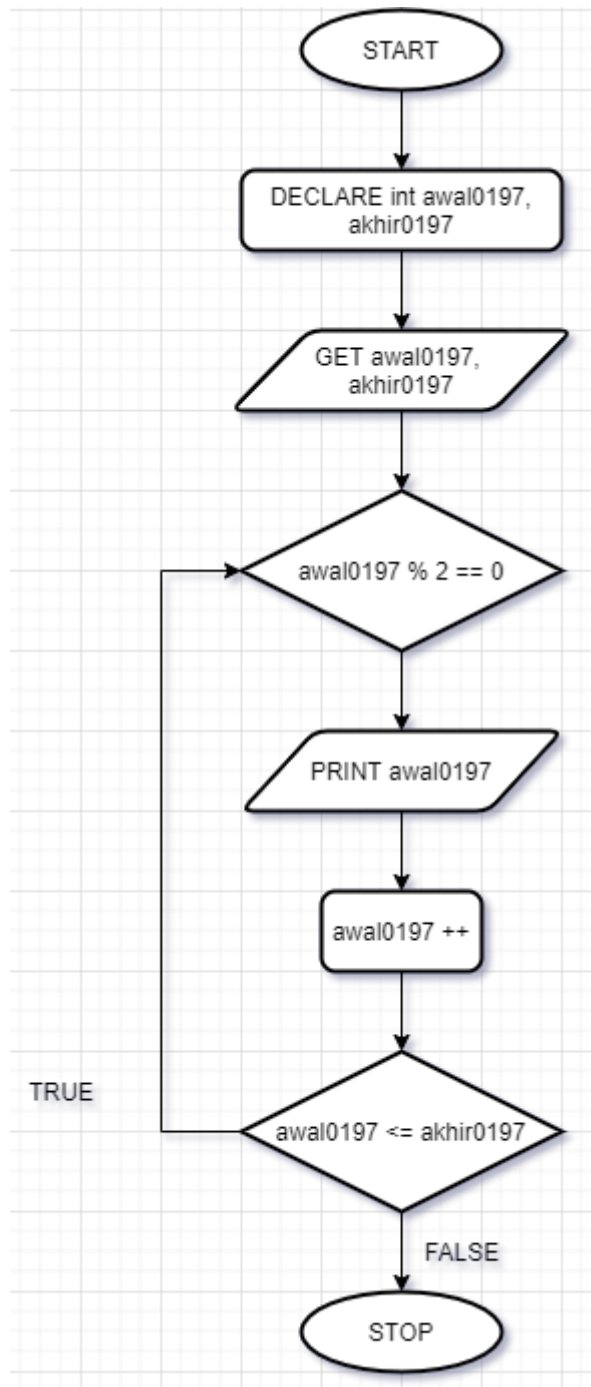
Kelas : 2B

a. Flowchart

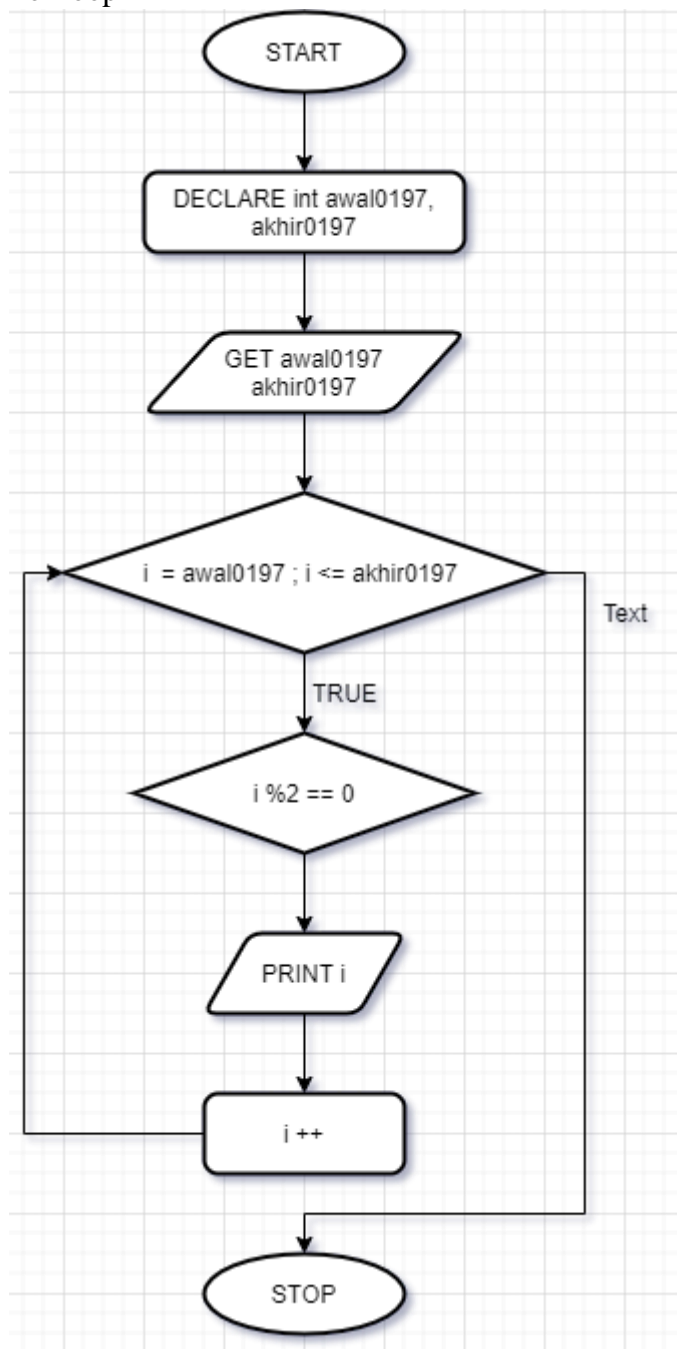
While



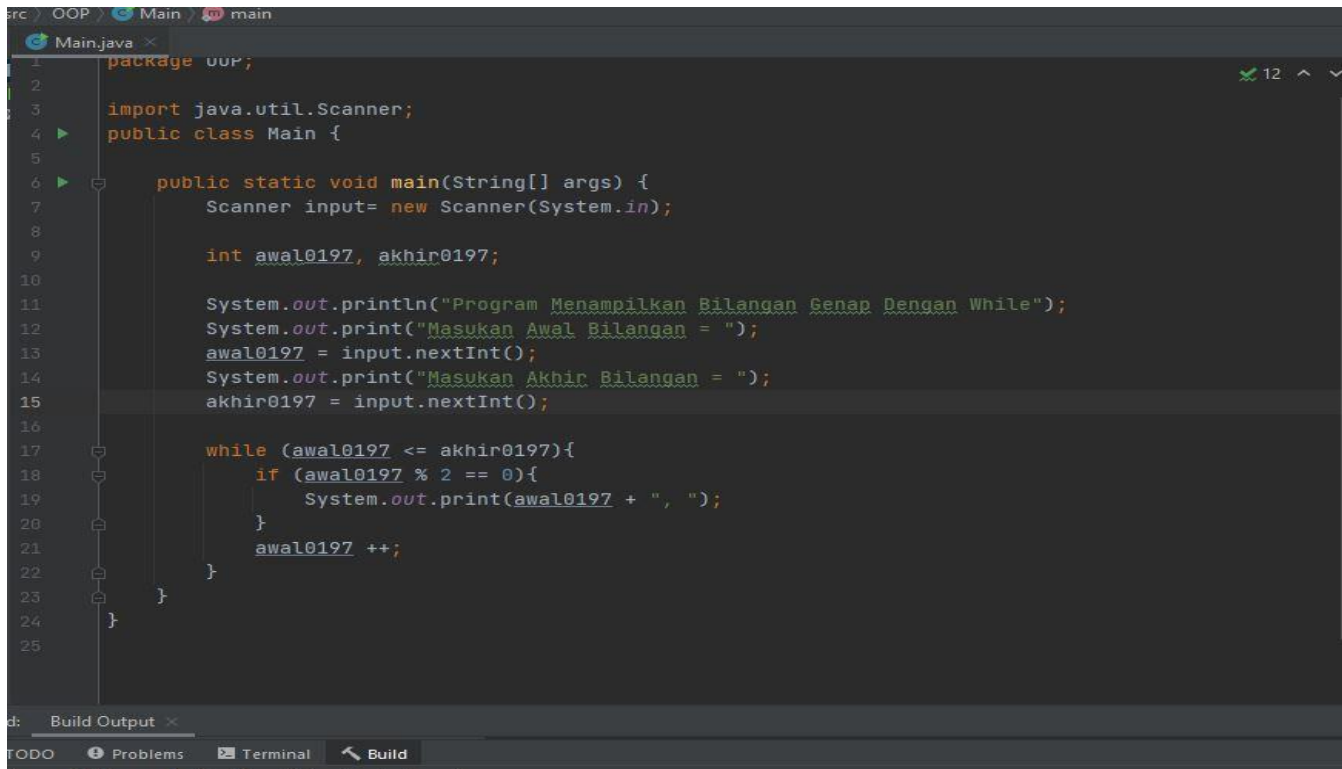
Do while



For loop



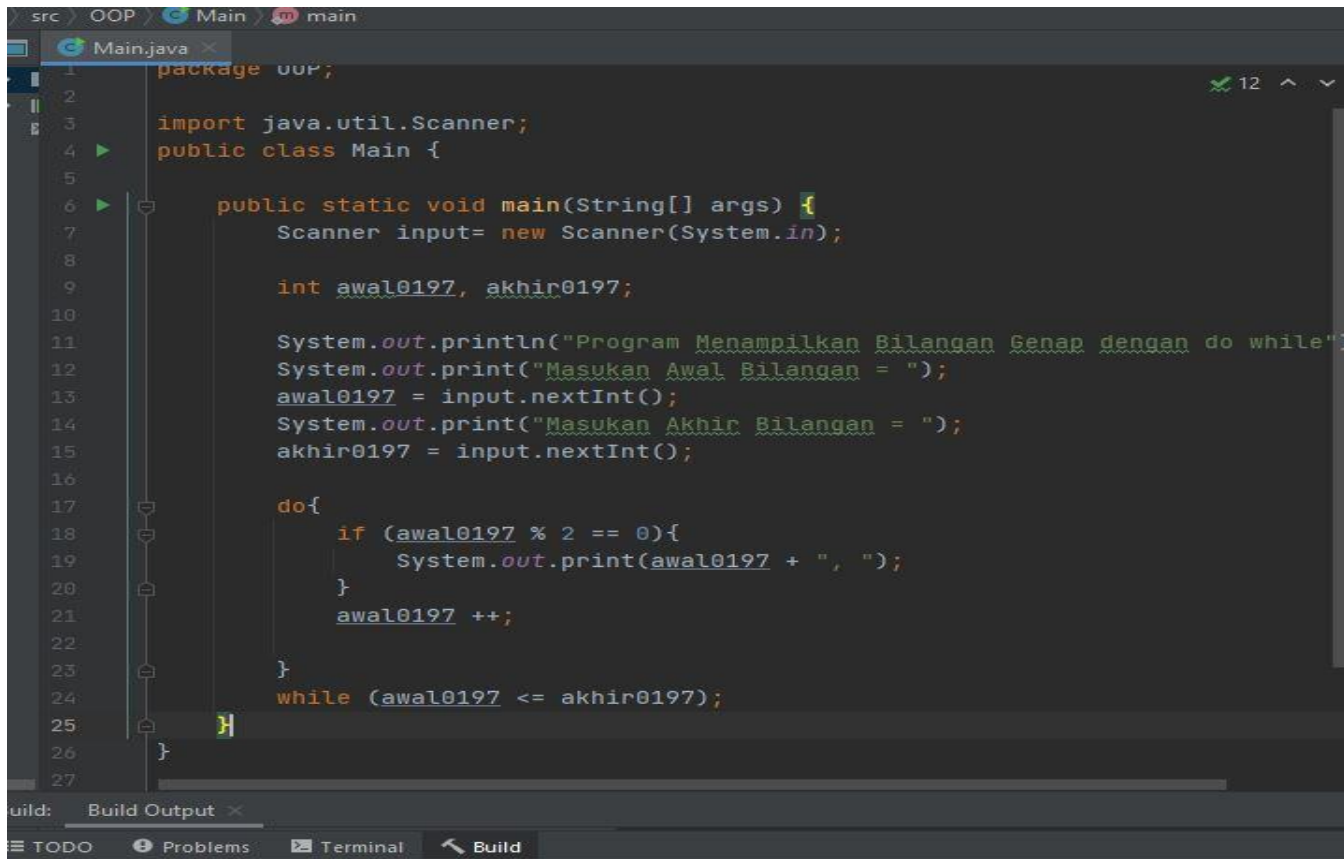
b. Program While



The screenshot shows an IDE with a Java file named Main.java. The code defines a package 'oop', imports 'java.util.Scanner', and creates a 'Main' class. The 'main' method initializes a 'Scanner' object, prompts the user for 'Awal Bilangan' and 'Akhir Bilangan', and then uses a 'while' loop to print even numbers from 'awal0197' to 'akhir0197'. The loop condition is 'awal0197 <= akhir0197'. Inside the loop, an 'if' statement checks if the number is even ('% 2 == 0') and prints it. The counter 'awal0197' is incremented by 1 in each iteration.

```
1 package oop;
2
3 import java.util.Scanner;
4 public class Main {
5
6     public static void main(String[] args) {
7         Scanner input= new Scanner(System.in);
8
9         int awal0197, akhir0197;
10
11         System.out.println("Program Menampilkan Bilangan Genap Dengan While");
12         System.out.print("Masukan Awal Bilangan = ");
13         awal0197 = input.nextInt();
14         System.out.print("Masukan Akhir Bilangan = ");
15         akhir0197 = input.nextInt();
16
17         while (awal0197 <= akhir0197){
18             if (awal0197 % 2 == 0){
19                 System.out.print(awal0197 + ", ");
20             }
21             awal0197 ++;
22         }
23     }
24 }
25
```

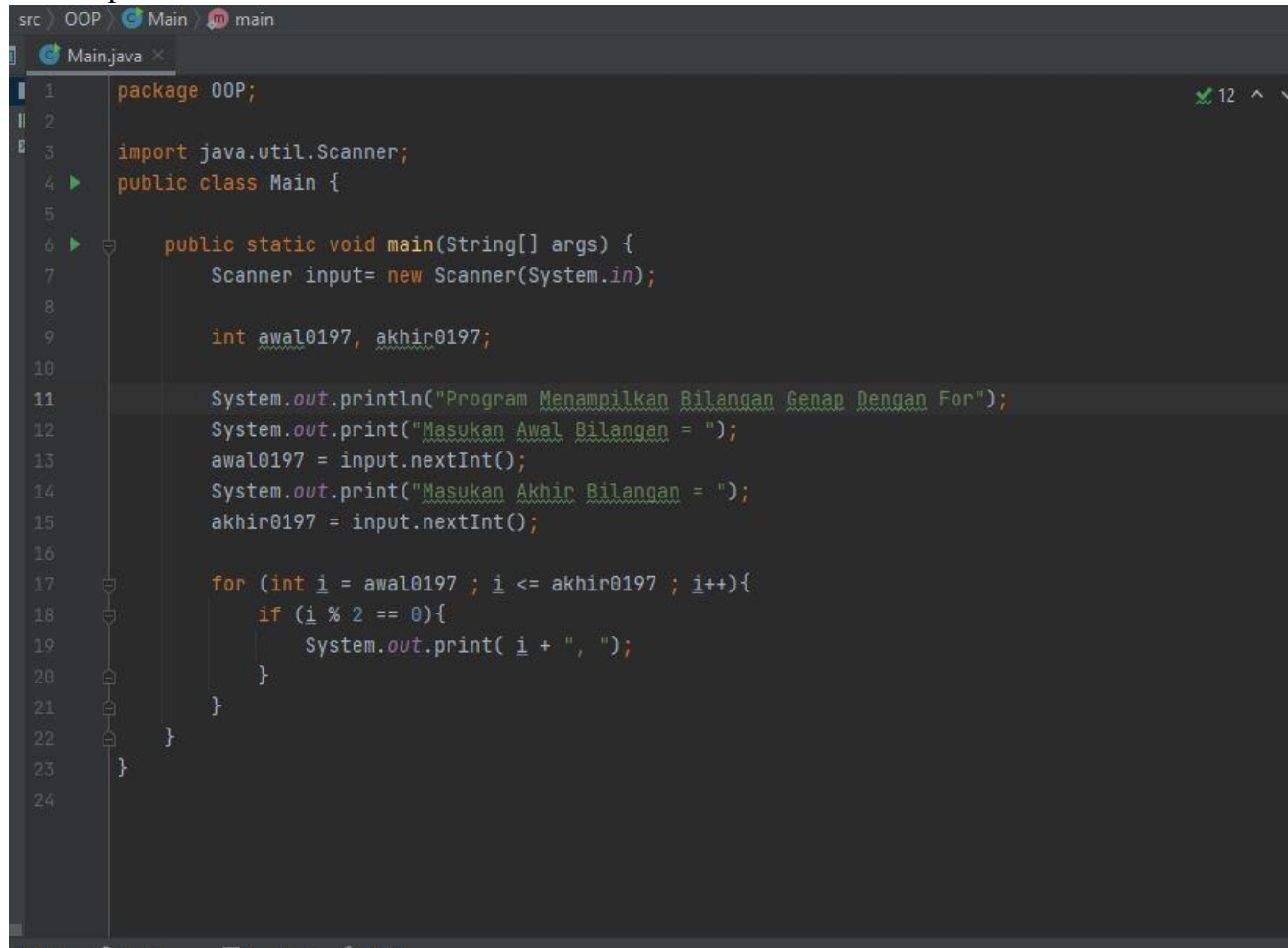
Do while



The screenshot shows an IDE with a Java file named Main.java. The code defines a package 'oop', imports 'java.util.Scanner', and creates a 'Main' class. The 'main' method initializes a 'Scanner' object, prompts the user for 'Awal Bilangan' and 'Akhir Bilangan', and then uses a 'do-while' loop to print even numbers from 'awal0197' to 'akhir0197'. The loop body contains an 'if' statement checking for even numbers and an increment of 'awal0197'. The loop condition 'while (awal0197 <= akhir0197);' is placed at the end of the loop block.

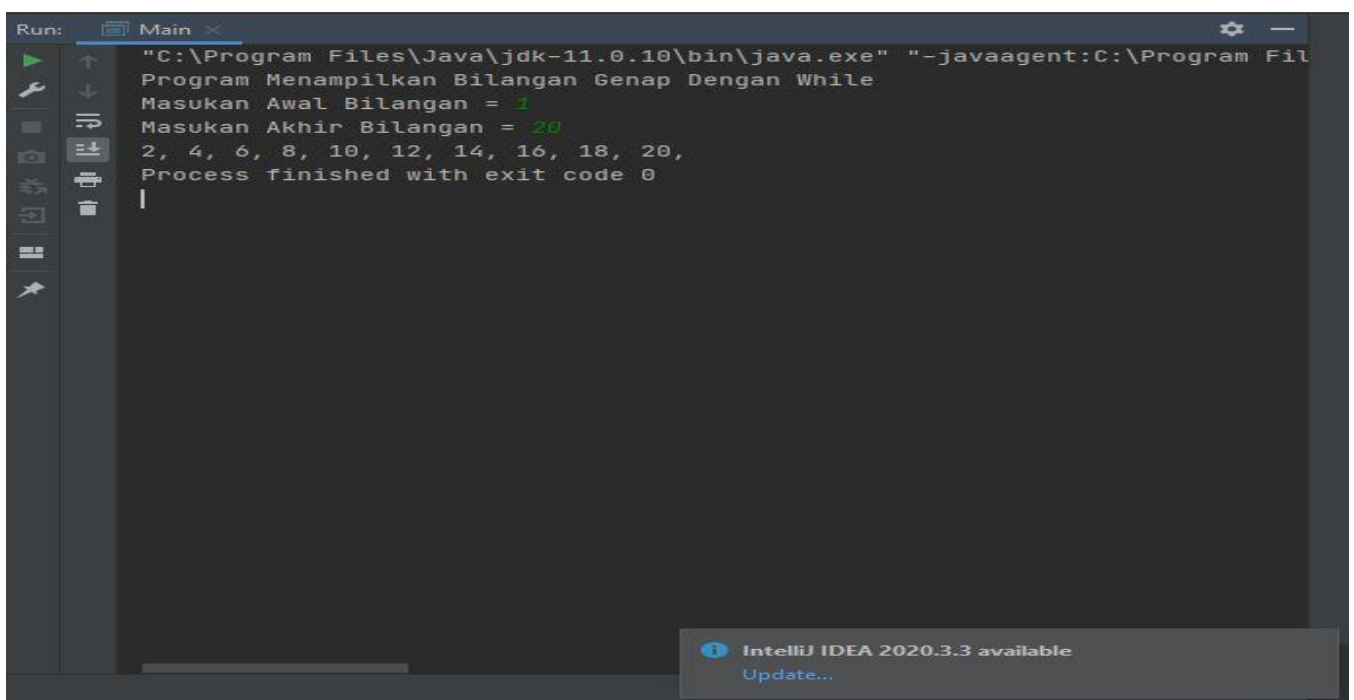
```
1 package oop;
2
3 import java.util.Scanner;
4 public class Main {
5
6     public static void main(String[] args) {
7         Scanner input= new Scanner(System.in);
8
9         int awal0197, akhir0197;
10
11         System.out.println("Program Menampilkan Bilangan Genap dengan do while");
12         System.out.print("Masukan Awal Bilangan = ");
13         awal0197 = input.nextInt();
14         System.out.print("Masukan Akhir Bilangan = ");
15         akhir0197 = input.nextInt();
16
17         do{
18             if (awal0197 % 2 == 0){
19                 System.out.print(awal0197 + ", ");
20             }
21             awal0197 ++;
22         }
23         while (awal0197 <= akhir0197);
24     }
25 }
26
27
```

For Loop



```
1 package OOP;
2
3 import java.util.Scanner;
4 public class Main {
5
6     public static void main(String[] args) {
7         Scanner input= new Scanner(System.in);
8
9         int awal0197, akhir0197;
10
11         System.out.println("Program Menampilkan Bilangan Genap Dengan For");
12         System.out.print("Masukan Awal Bilangan = ");
13         awal0197 = input.nextInt();
14         System.out.print("Masukan Akhir Bilangan = ");
15         akhir0197 = input.nextInt();
16
17         for (int i = awal0197 ; i <= akhir0197 ; i++){
18             if (i % 2 == 0){
19                 System.out.print( i + ", ");
20             }
21         }
22     }
23 }
24
```

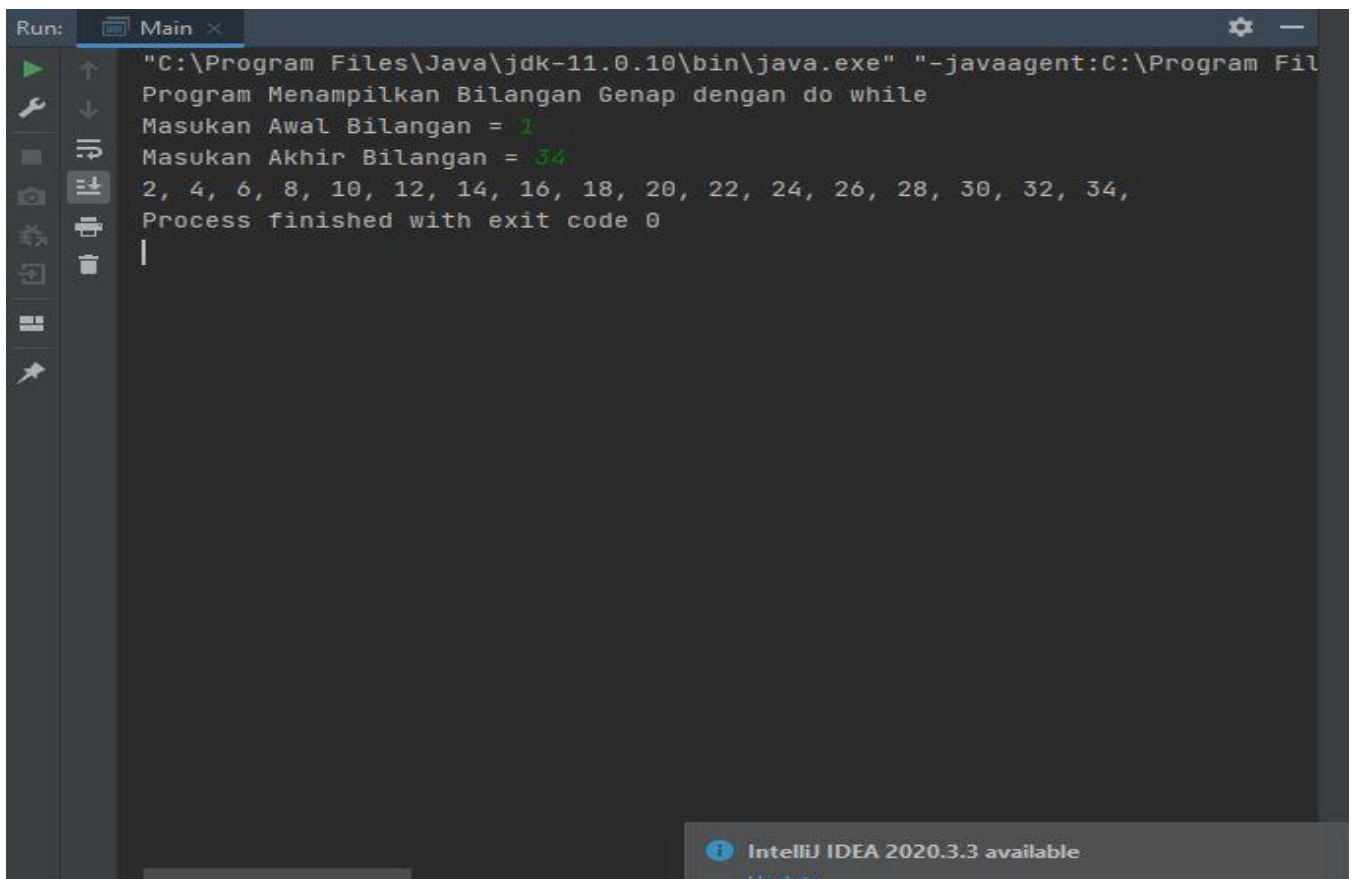
- c. Hasil output
While



```
Run: Main x
"C:\Program Files\Java\jdk-11.0.10\bin\java.exe" "-javaagent:C:\Program Fil
Program Menampilkan Bilangan Genap Dengan While
Masukan Awal Bilangan = 1
Masukan Akhir Bilangan = 20
2, 4, 6, 8, 10, 12, 14, 16, 18, 20,
Process finished with exit code 0
|
```

IntelliJ IDEA 2020.3.3 available
Update...

do while

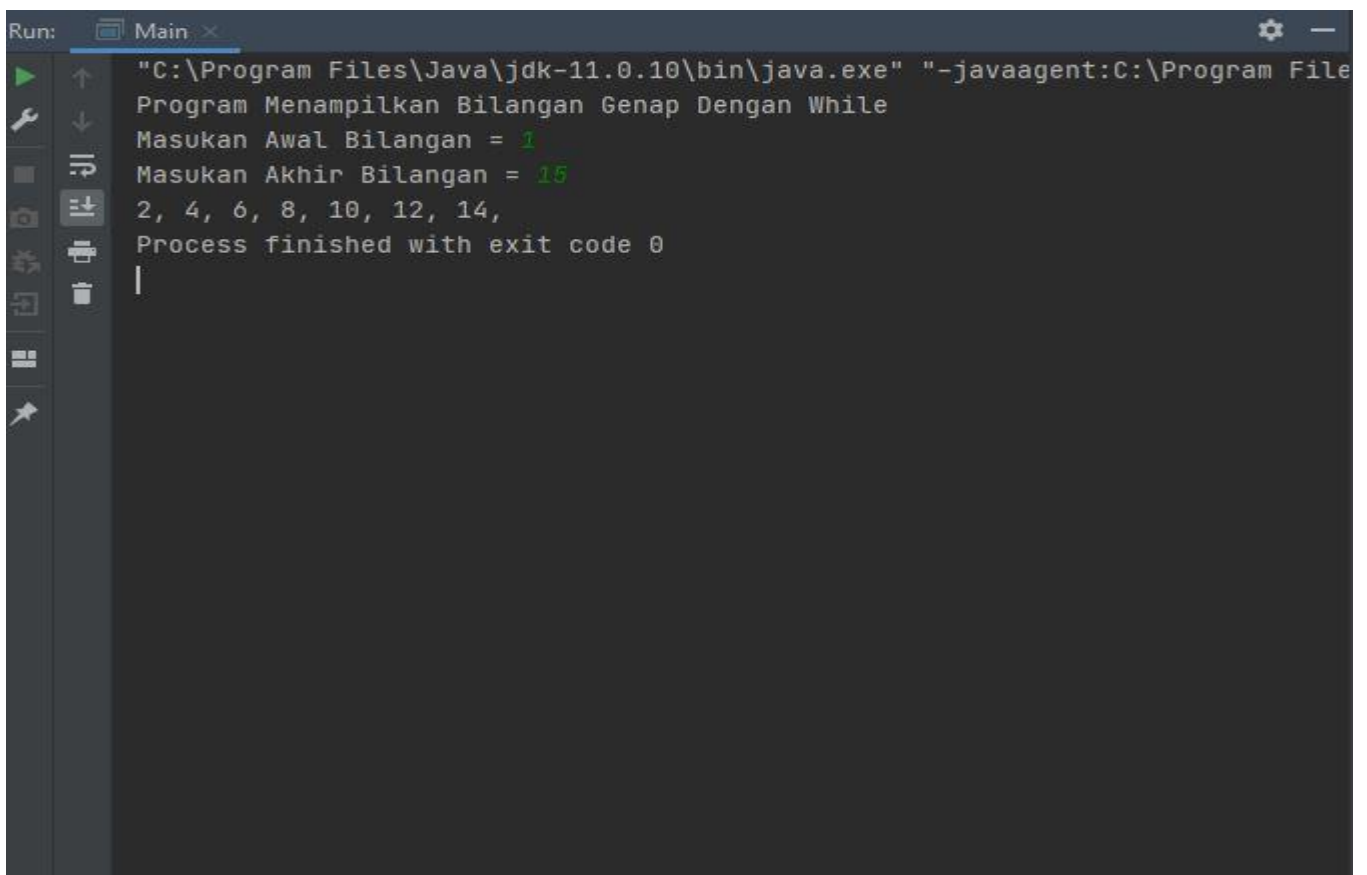


The screenshot shows the Run console of IntelliJ IDEA. The output text is as follows:

```
"C:\Program Files\Java\jdk-11.0.10\bin\java.exe" "-javaagent:C:\Program File
Program Menampilkan Bilangan Genap dengan do while
Masukan Awal Bilangan = 1
Masukan Akhir Bilangan = 34
2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34,
Process finished with exit code 0
|
```

An update notification for IntelliJ IDEA 2020.3.3 is visible at the bottom right.

For Loop



The screenshot shows the Run console of IntelliJ IDEA. The output text is as follows:

```
"C:\Program Files\Java\jdk-11.0.10\bin\java.exe" "-javaagent:C:\Program File
Program Menampilkan Bilangan Genap Dengan While
Masukan Awal Bilangan = 1
Masukan Akhir Bilangan = 15
2, 4, 6, 8, 10, 12, 14,
Process finished with exit code 0
|
```