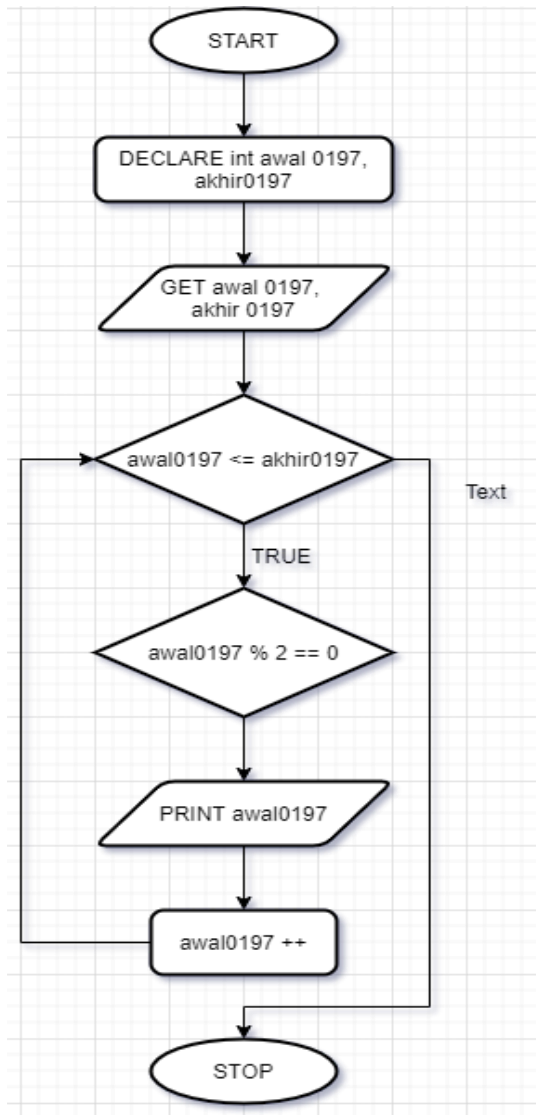Nama : Ivan Andri Wahyudi

Npm : 203510197
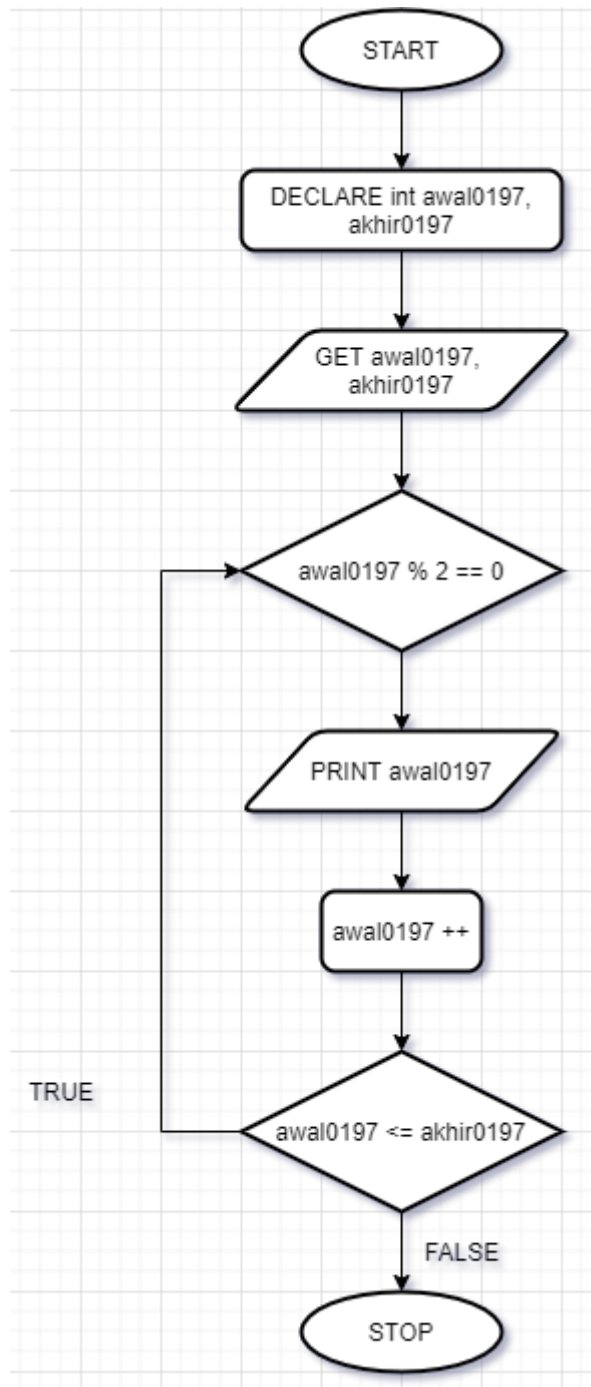
Kelas : 2B

a. Flowchart
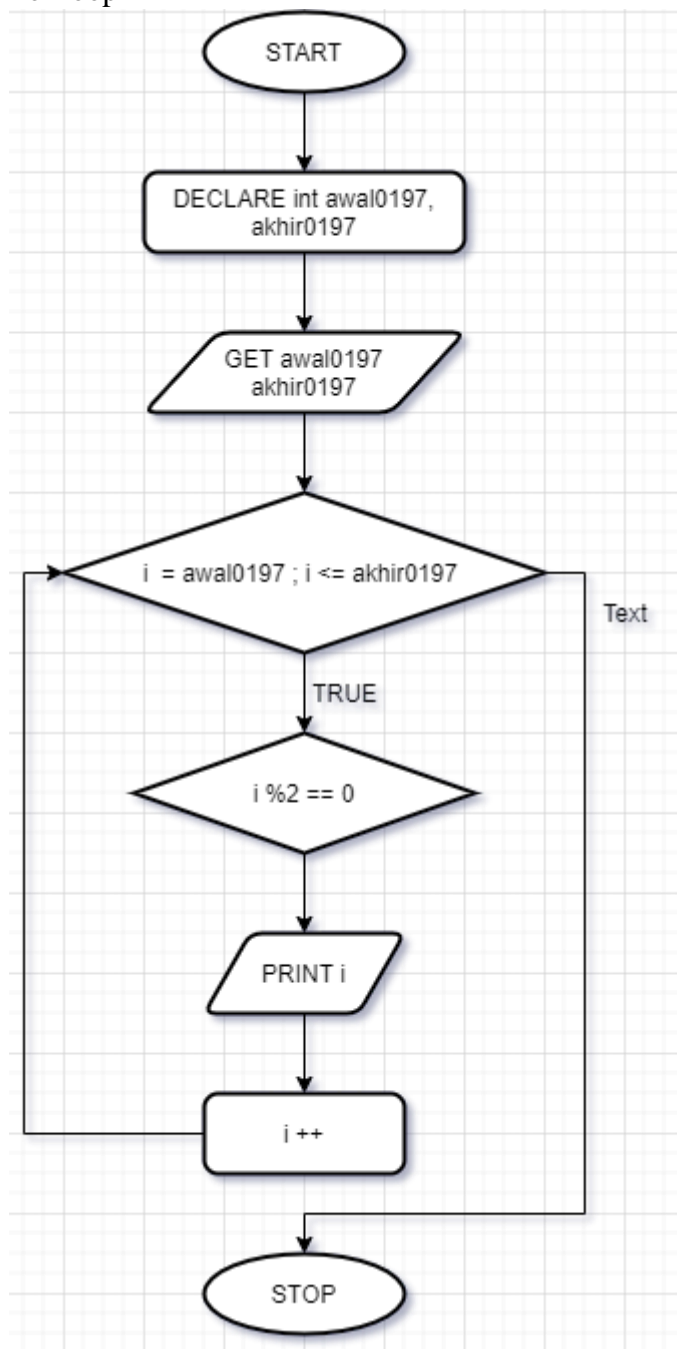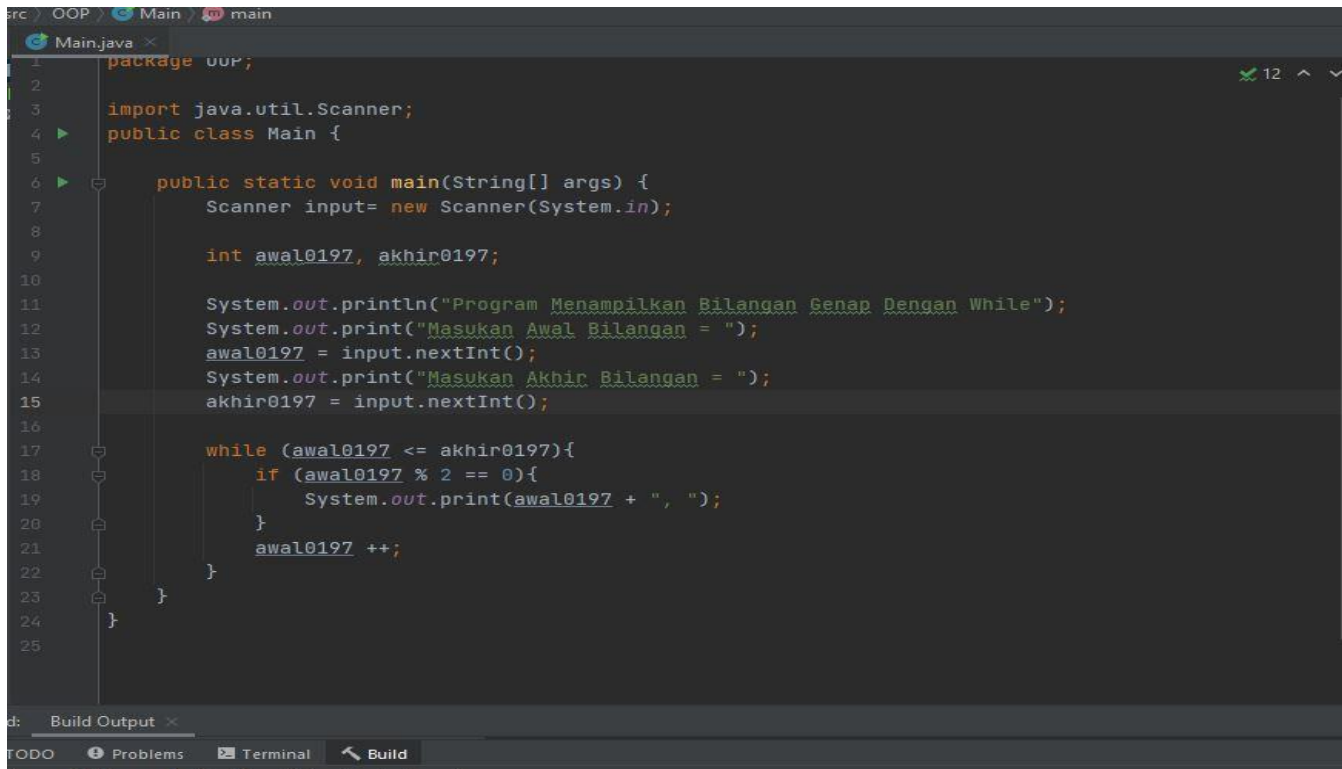   While

Do while

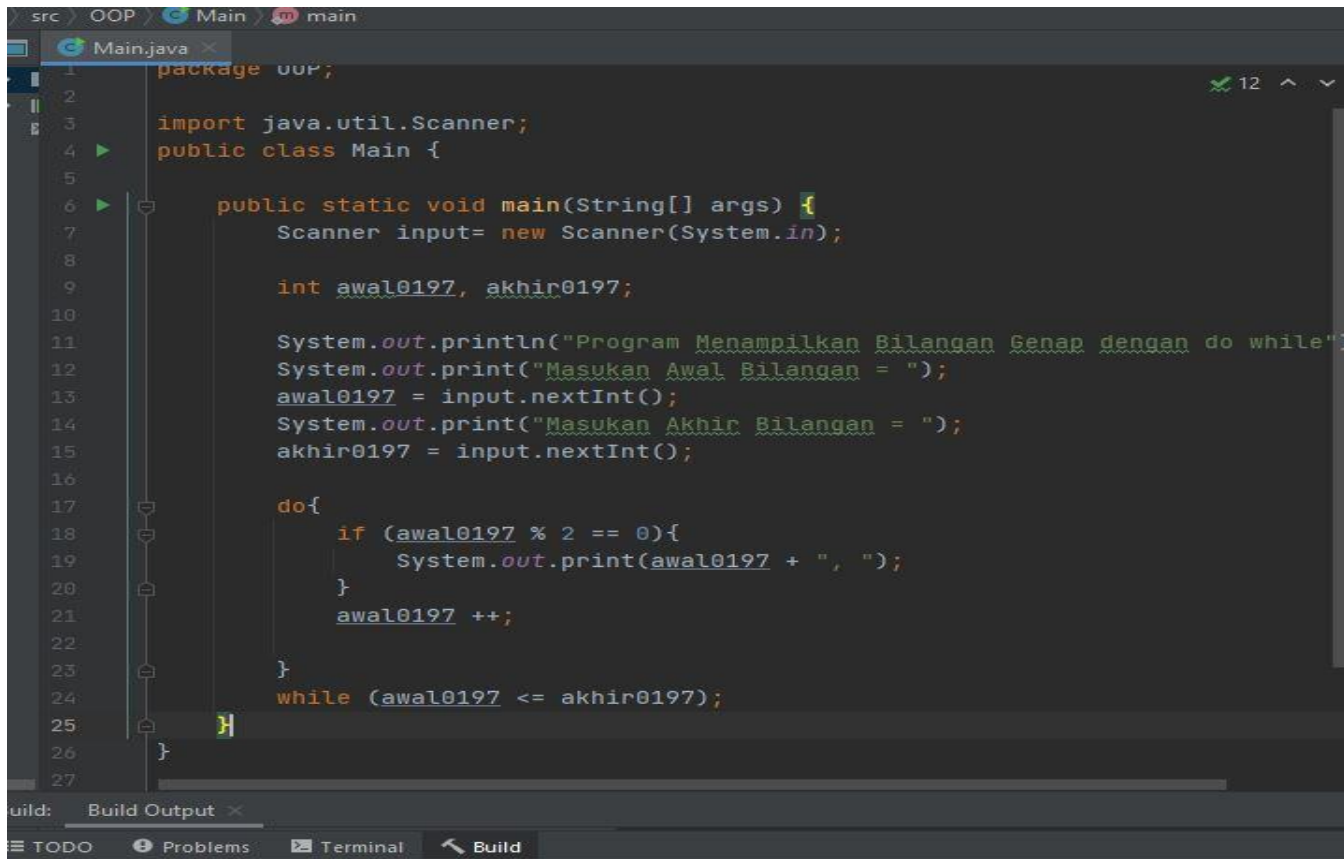
START

DECLARE int awal0197, akhir0197

GET awal0197, akhir0197

awal0197 % 2 == 0

PRINT awal0197

awal0197 ++

TRUE

awal0197 <= akhir0197

FALSE

STOP

For loop

START

DECLARE int awal0197,
akhir0197

GET awal0197
akhir0197

i = awal0197 ; i <= akhir0197

Text

TRUE

i %2 == 0

PRINT i

i ++

STOP

b. Program
While

```java
package OOP;

import java.util.Scanner;
public class Main {

    public static void main(String[] args) {
        Scanner input= new Scanner(System.in);

        int awal0197, akhir0197;

        System.out.println("Program Menampilkan Bilangan Genap Dengan While");
        System.out.print("Masukan Awal Bilangan = ");
        awal0197 = input.nextInt();
        System.out.print("Masukan Akhir Bilangan = ");
        akhir0197 = input.nextInt();

        while (awal0197 <= akhir0197){
            if (awal0197 % 2 == 0){
                System.out.print(awal0197 + ", ");
            }
            awal0197 ++;
        }
    }
}
```
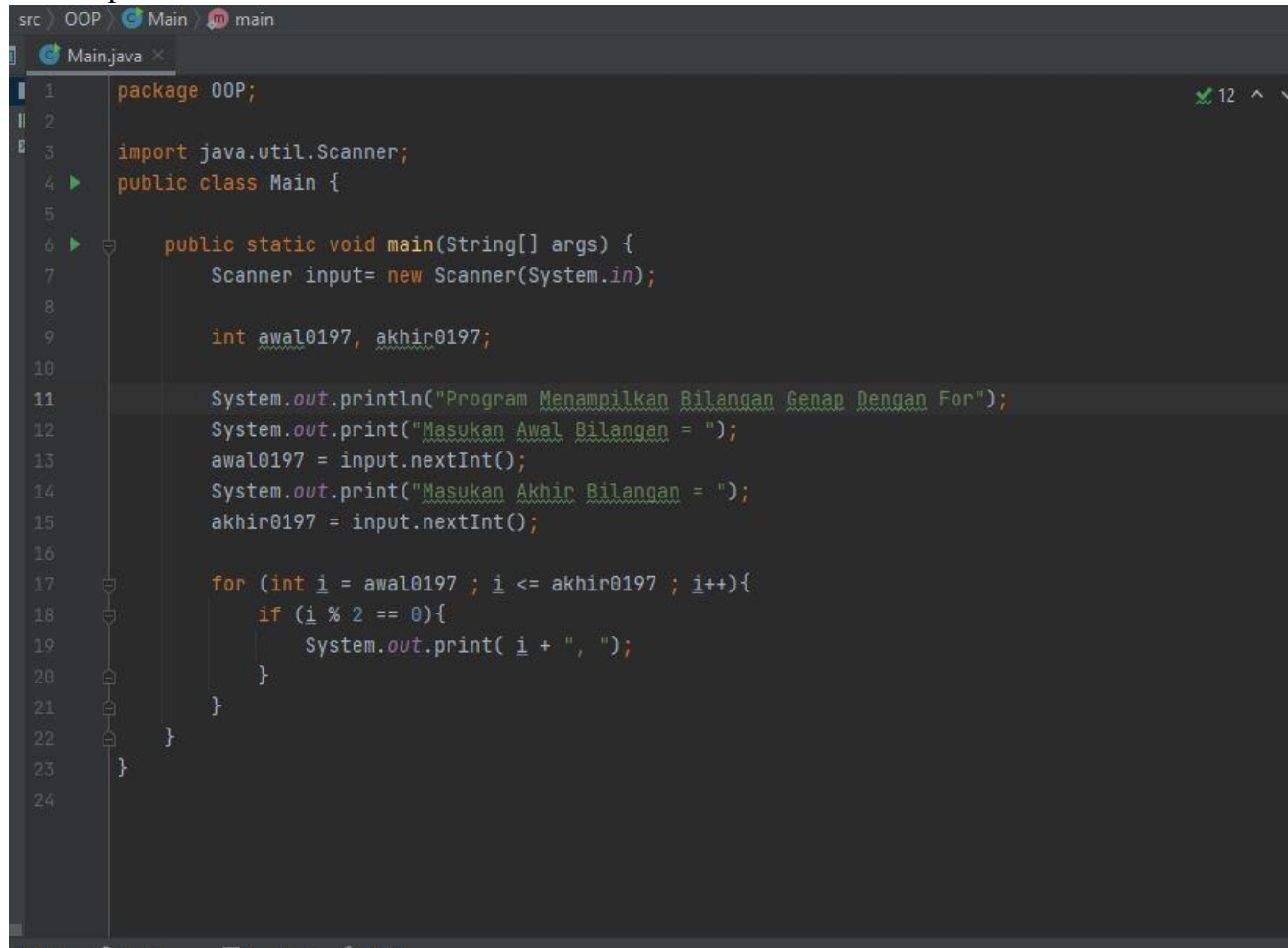
Do whilw

```java
package OOP;

import java.util.Scanner;
public class Main {

    public static void main(String[] args) {
        Scanner input= new Scanner(System.in);

        int awal0197, akhir0197;

        System.out.println("Program Menampilkan Bilangan Genap dengan do while");
        System.out.print("Masukan Awal Bilangan = ");
        awal0197 = input.nextInt();
        System.out.print("Masukan Akhir Bilangan = ");
        akhir0197 = input.nextInt();

        do{
            if (awal0197 % 2 == 0){
                System.out.print(awal0197 + ", ");
            }
            awal0197 ++;

        }
        while (awal0197 <= akhir0197);
    }
}
```

For Loop
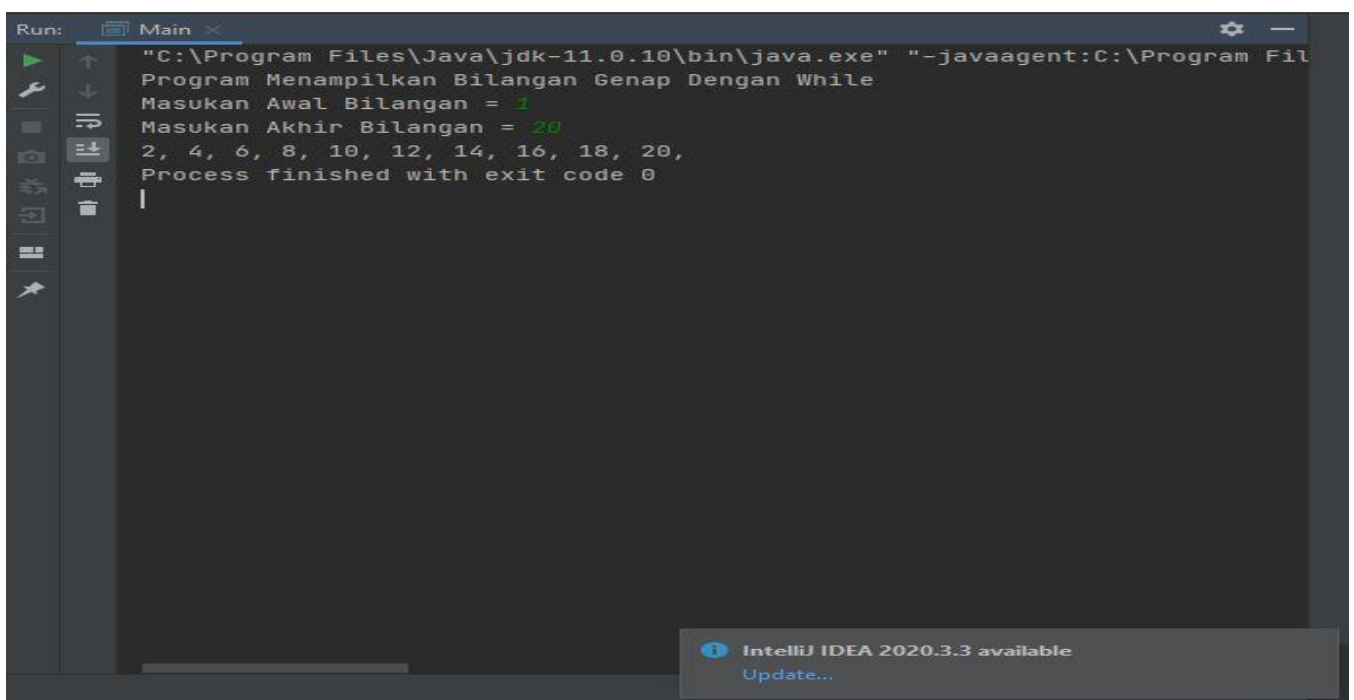
```java
package OOP;

import java.util.Scanner;
public class Main {

    public static void main(String[] args) {
        Scanner input= new Scanner(System.in);

        int awal0197, akhir0197;

        System.out.println("Program Menampilkan Bilangan Genap Dengan For");
        System.out.print("Masukan Awal Bilangan = ");
        awal0197 = input.nextInt();
        System.out.print("Masukan Akhir Bilangan = ");
        akhir0197 = input.nextInt();

        for (int i = awal0197 ; i <= akhir0197 ; i++){
            if (i % 2 == 0){
                System.out.print( i + ", ");
            }
        }
    }
}
```

c. Hasil output
   While

```
"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
```

do while

```
Run:     Main ×                                                                    ⚙ —
  ►   ↑      "C:\Program Files\Java\jdk-11.0.10\bin\java.exe" "-javaagent:C:\Program Fil
  🔧  ↓      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
  ⤴  🗑      |
  ⬚
  📌
                                                  ⓘ IntelliJ IDEA 2020.3.3 available
```
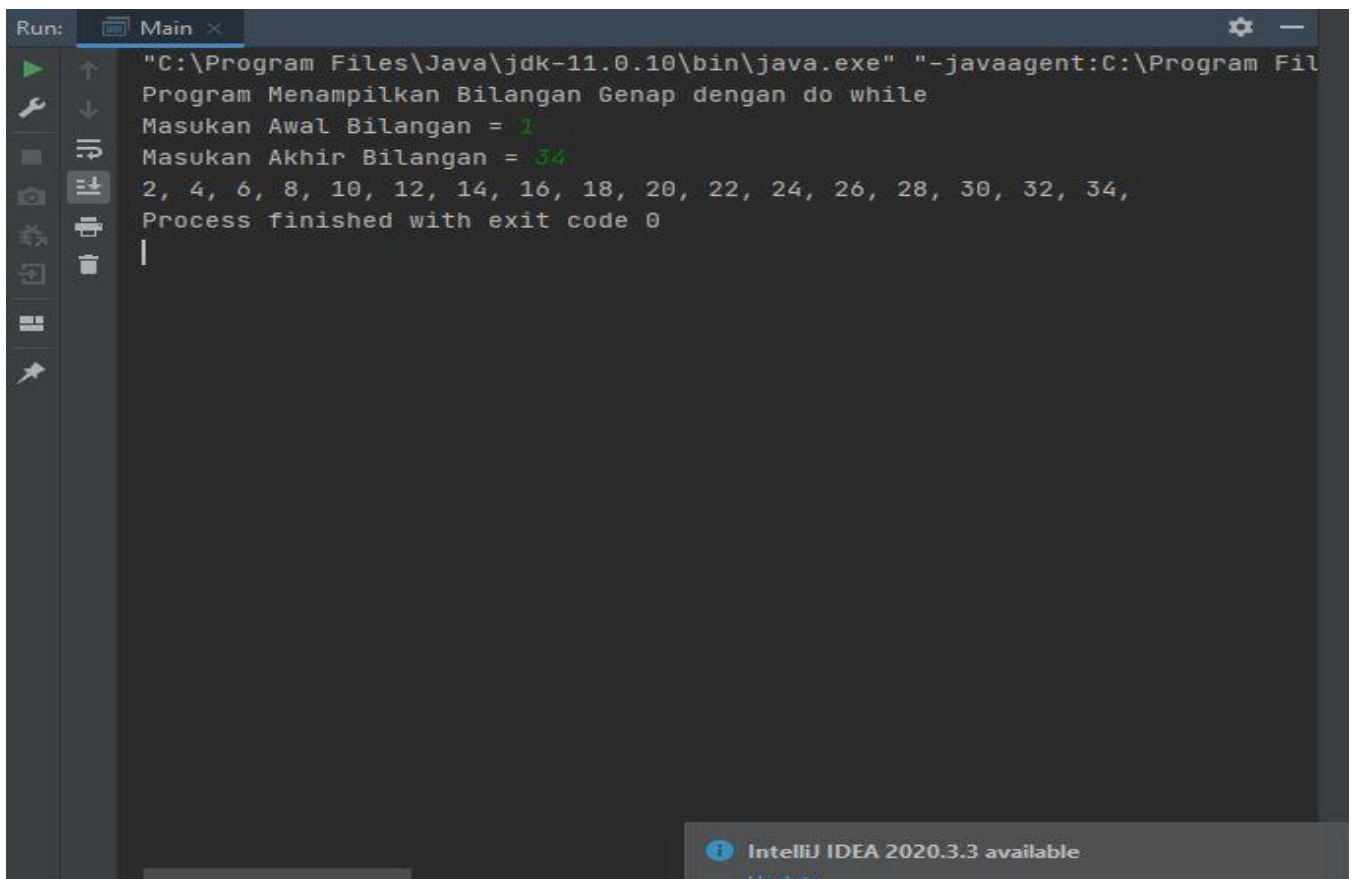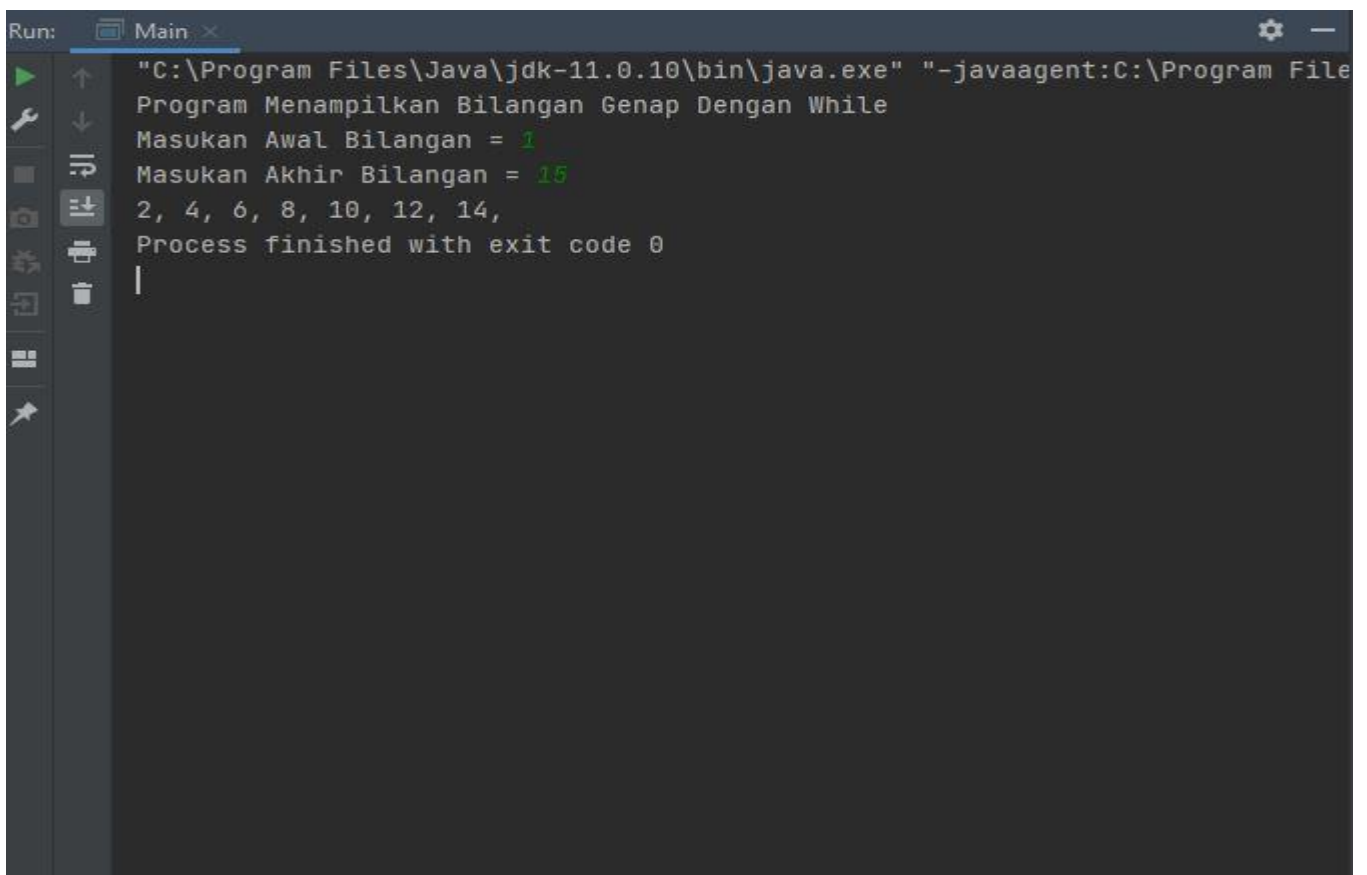
For Loop

```
Run:     Main ×                                                                    ⚙ —
  ►   ↑      "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
  ⤴  🗑      |
  ⬚
  📌
```