

LAPORAN PRAKTIKUM
PRAKTIKUM PEMROGRAMAN BERORIENTASI OBJEK
Tugas 2.2 Praktikum PBO



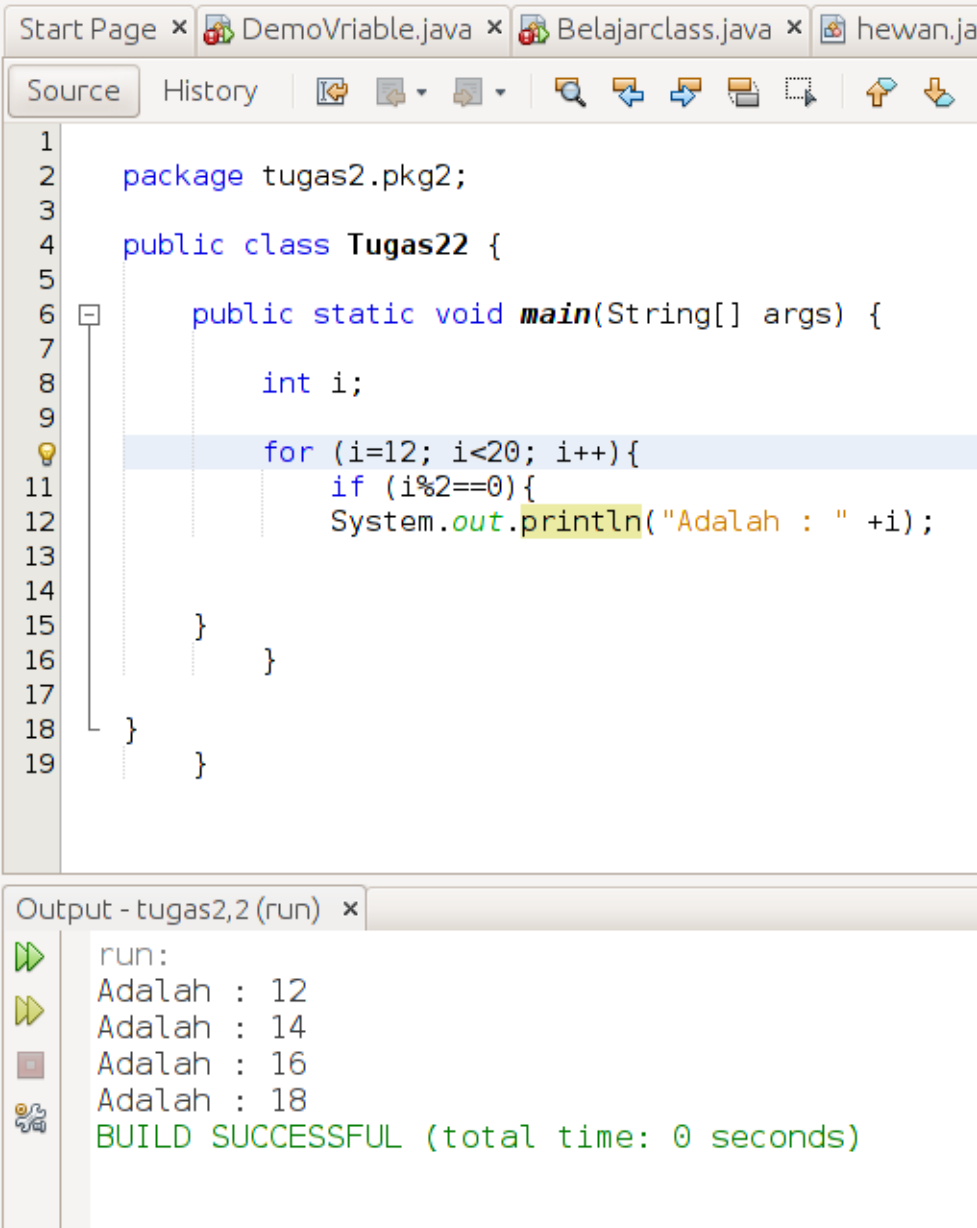
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Prodi : Informatika

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1. Buatlah program untuk mencetak semua angka genap antara 10 sampai 20



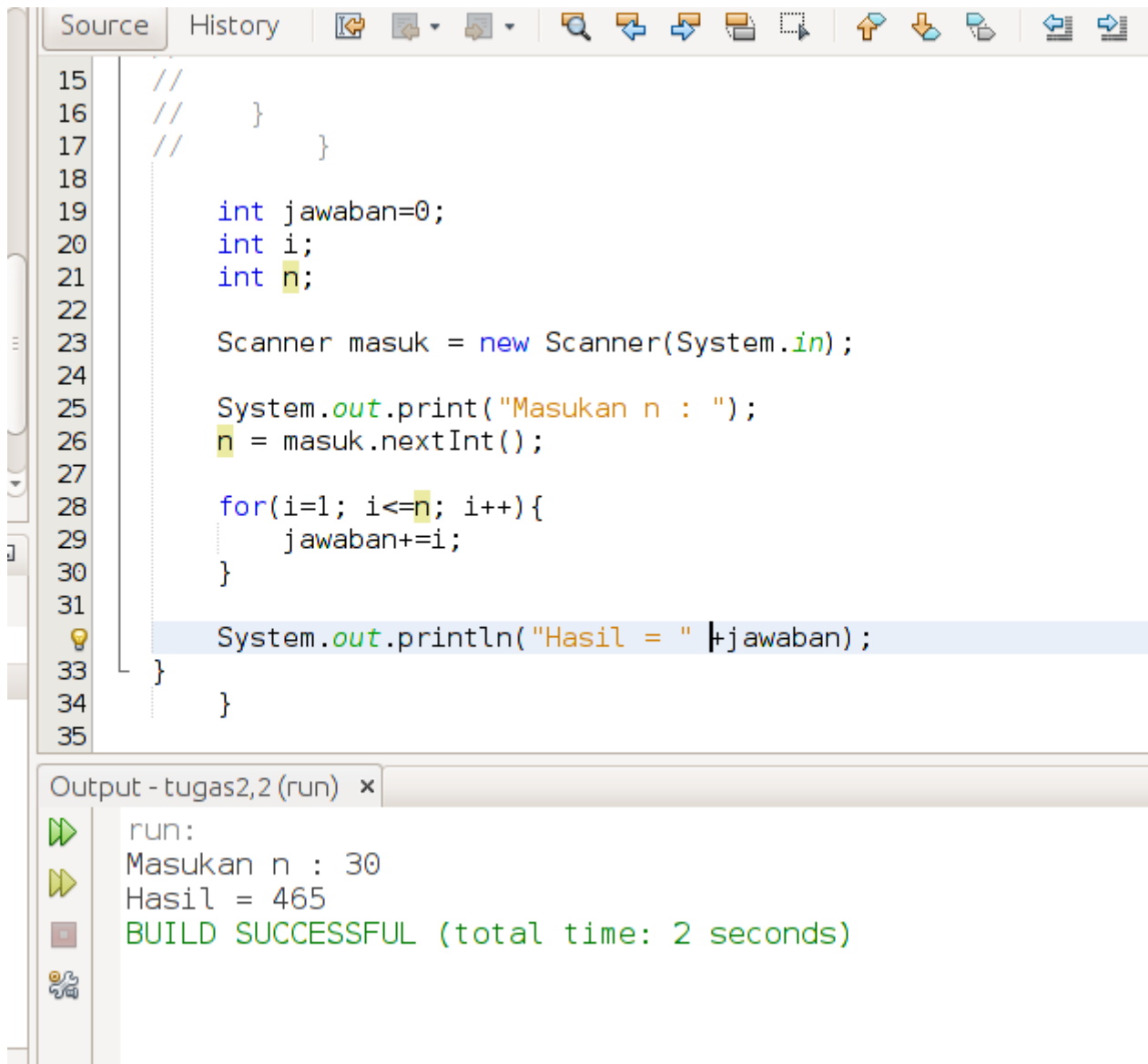
The screenshot shows an IDE with a Java file named `Tugas22.java` in the package `tugas2.pkg2`. The code defines a public class `Tugas22` with a `main` method. Inside the `main` method, an integer `i` is declared, and a `for` loop is used to iterate from `i=12` to `i<20`. Within the loop, an `if` statement checks if `i%2==0` (i.e., if `i` is even). If true, `System.out.println("Adalah : " + i);` is executed. The output window shows the results of the program execution, displaying the even numbers 12, 14, 16, and 18. The build was successful.

```
1 package tugas2.pkg2;
2
3
4 public class Tugas22 {
5
6     public static void main(String[] args) {
7
8         int i;
9
10        for (i=12; i<20; i++){
11            if (i%2==0){
12                System.out.println("Adalah : " + i);
13            }
14        }
15    }
16 }
17
18
19 }
```

Output - tugas2,2 (run) x

```
run:
Adalah : 12
Adalah : 14
Adalah : 16
Adalah : 18
BUILD SUCCESSFUL (total time: 0 seconds)
```

2. Buatlah program untuk menghitung nilai penjumlahan dari 1 sampai n

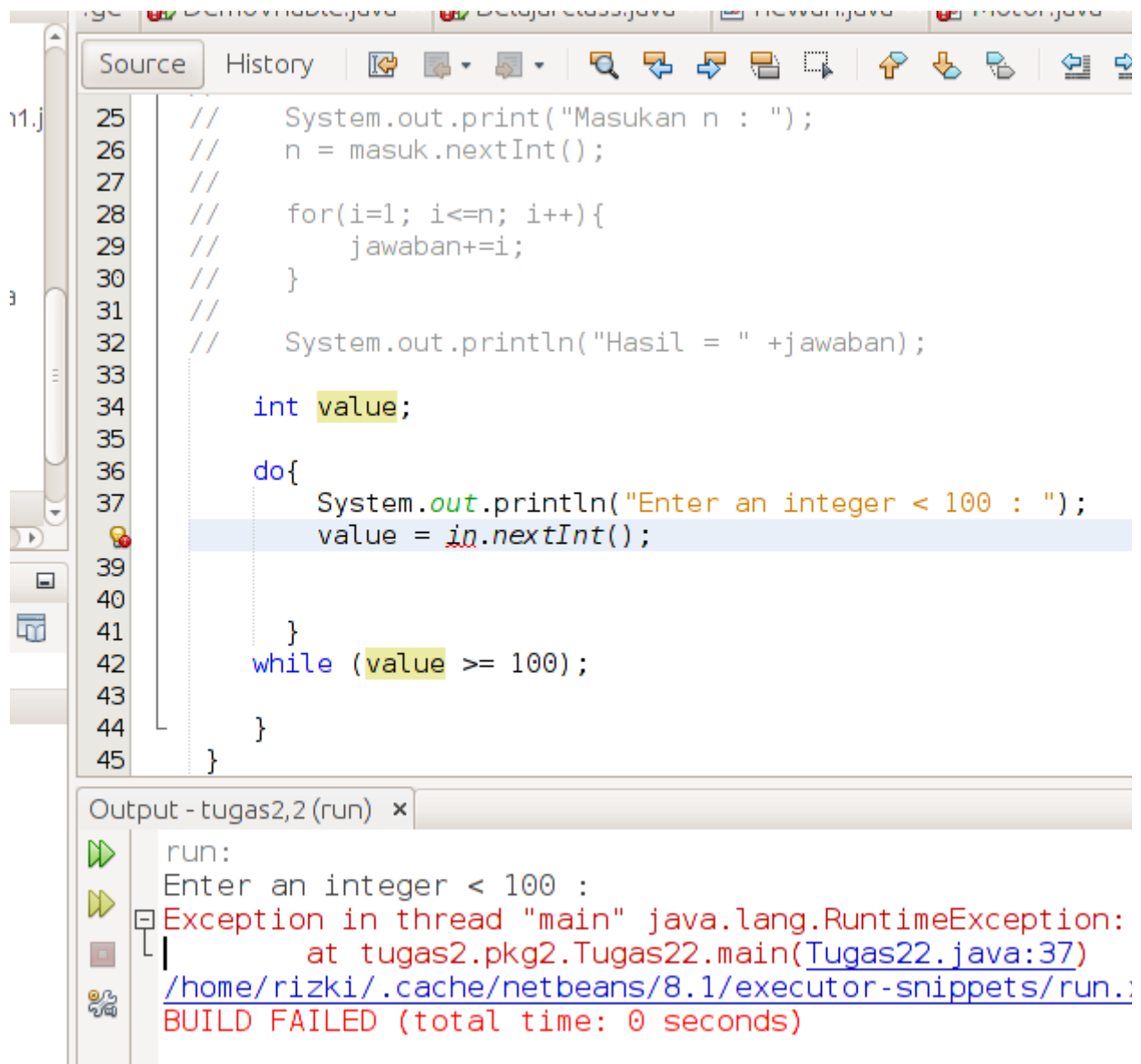


```
15 //  
16 // }  
17 // }  
18  
19 int jawaban=0;  
20 int i;  
21 int n;  
22  
23 Scanner masuk = new Scanner(System.in);  
24  
25 System.out.print("Masukan n : ");  
26 n = masuk.nextInt();  
27  
28 for(i=1; i<=n; i++){  
29     jawaban+=i;  
30 }  
31  
32 System.out.println("Hasil = " + jawaban);  
33 }  
34 }  
35
```

Output - tugas2,2 (run) x

```
run:  
Masukan n : 30  
Hasil = 465  
BUILD SUCCESSFUL (total time: 2 seconds)
```

3. Tulis dan jalankan program diatas, apa fungsinya?

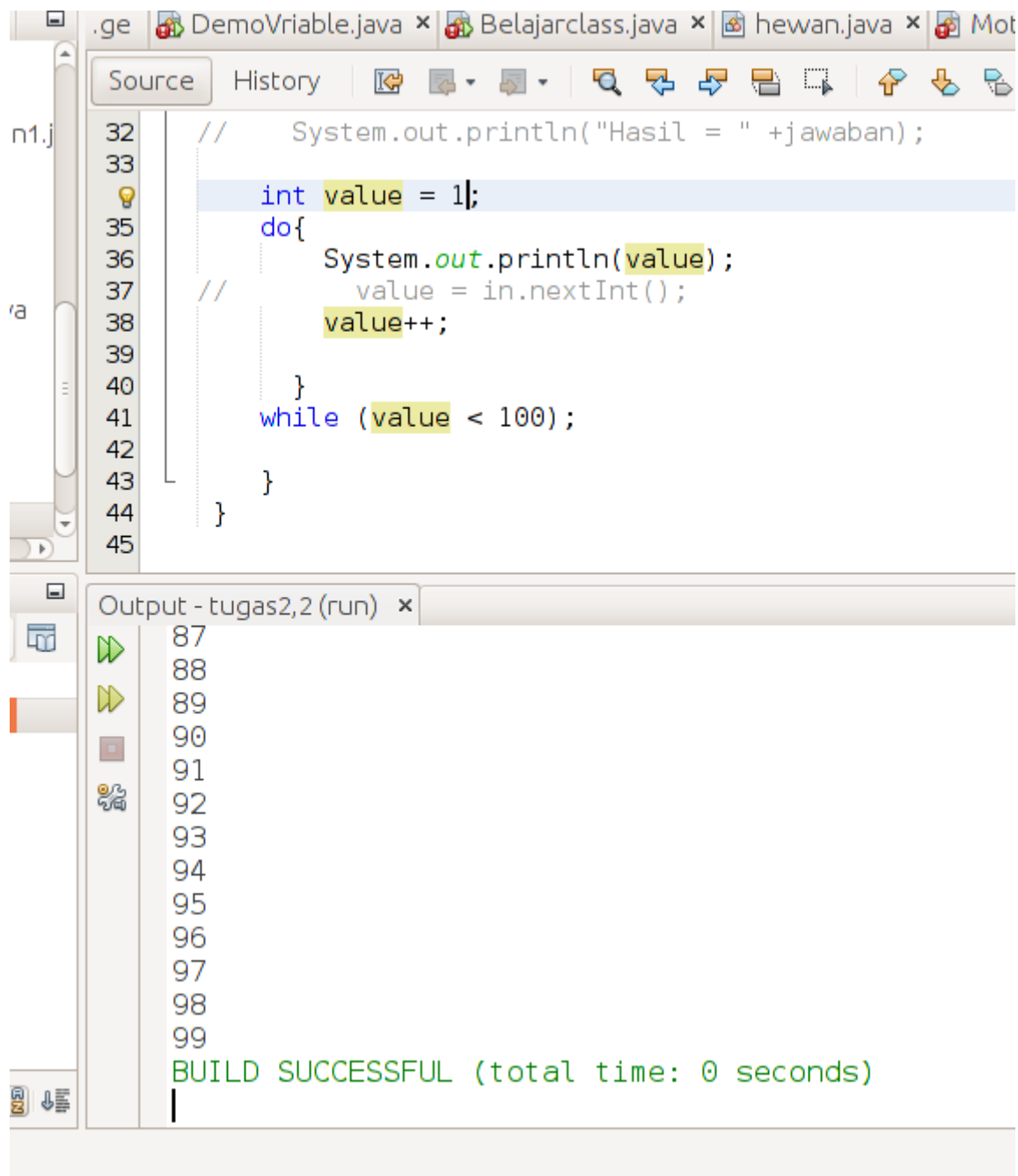


The screenshot shows the NetBeans IDE with a Java source file open. The code is a Java program that prompts the user to enter an integer less than 100. It uses a `do-while` loop to repeatedly prompt the user until a valid integer is entered. The program then calculates the sum of integers from 1 to `n` and prints the result.

```
25 // System.out.print("Masukan n : ");
26 // n = masuk.nextInt();
27 //
28 // for(i=1; i<=n; i++){
29 //     jawaban+=i;
30 // }
31 //
32 // System.out.println("Hasil = " +jawaban);
33
34 int value;
35
36 do{
37     System.out.println("Enter an integer < 100 : ");
38     value = in.nextInt();
39
40 }
41 while (value >= 100);
42
43
44 }
45 }
```

The output window shows the execution of the program. It displays the prompt "Enter an integer < 100 :". Below this, a red error message indicates a `java.lang.RuntimeException` occurred in the `main` method at line 37 of `Tugas22.java`. The error message includes the file path `/home/rizki/.cache/netbeans/8.1/executor-snippets/run.` and states "BUILD FAILED (total time: 0 seconds)".

4. Buatlah program untuk mengecek input antara 0 sampai 100.
(modifikasi program diatas)



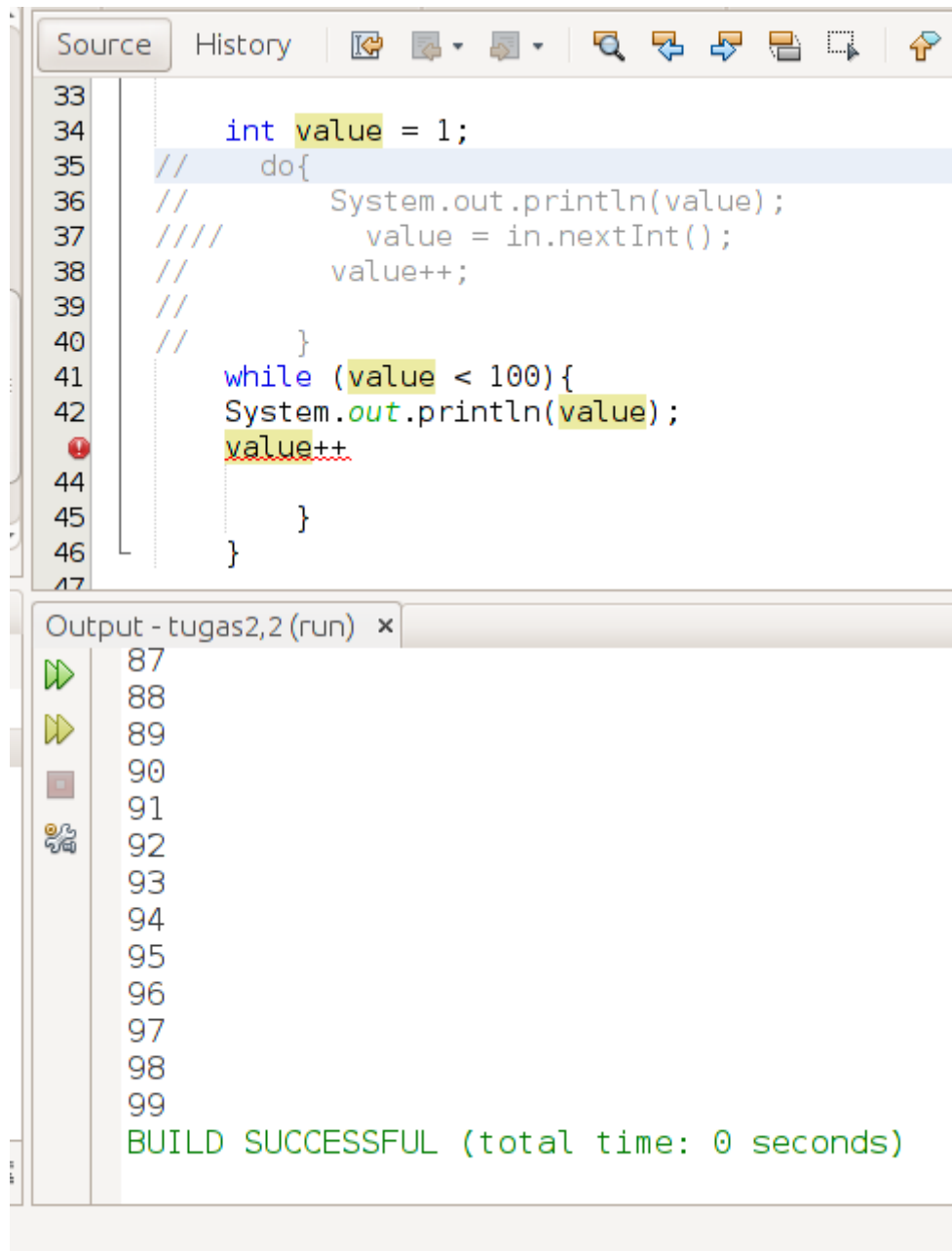
The screenshot shows an IDE with a Java file named 'DemoVriable.java' (note the typo) open. The code is a loop that prints the value of 'value' from 1 to 100. The output window shows the numbers 87 through 99, indicating the program was run and the output was truncated. The build status is 'BUILD SUCCESSFUL (total time: 0 seconds)'.

```
32 //      System.out.println("Hasil = " +jawaban);
33
34      int value = 1;
35      do{
36          System.out.println(value);
37          //      value = in.nextInt();
38          value++;
39
40      }
41      while (value < 100);
42
43  }
44
45 }
```

Output - tugas2,2 (run) x

```
87
88
89
90
91
92
93
94
95
96
97
98
99
BUILD SUCCESSFUL (total time: 0 seconds)
```

5. Buatlah program dengan fungsi yang sama dengan program diatas namun dengan menggunakan while loop



The screenshot shows an IDE window with a source code editor and an output console. The source code is a Java program that initializes an integer variable 'value' to 1 and enters a while loop that continues as long as 'value' is less than 100. Inside the loop, the current value is printed, and the value is incremented by 1. The output console shows the numbers 87 through 99, indicating the program ran successfully and printed the sequence of numbers.

```
33  
34     int value = 1;  
35     // do{  
36     //     System.out.println(value);  
37     ////     value = in.nextInt();  
38     //     value++;  
39     //  
40     // }  
41     while (value < 100){  
42     System.out.println(value);  
43     value++;  
44     }  
45 }  
46 }  
47
```

Output - tugas2,2 (run) x

```
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
BUILD SUCCESSFUL (total time: 0 seconds)
```

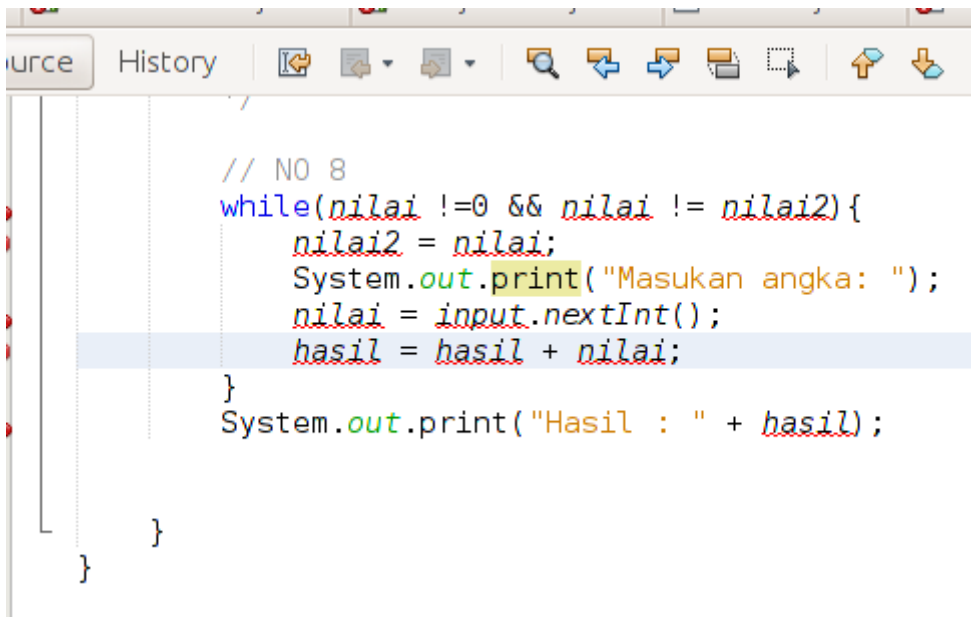
6. Buatlah program, yang menerima serangkaian integer (berhenti saat menerima angka 0)

```
//NO 6 Buatlah program, yang menerima serangkaian inte  
  
while(nilai != 0){  
    System.out.print("Masukan angka: ");  
    nilai = input.nextInt();  
}
```

7. Buatlah program, yang menerima serangkaian integer (berhenti saat menerima angka 0), lalu menghitung nilai penjumlahan dari angka-angka tersebut.

```
/*  
  
// NO 7  
  
while(nilai != 0){  
    System.out.print("Masukan angka: ");  
    nilai = input.nextInt();  
    hasil = hasil + nilai;  
}  
System.out.print("Hasil : " + hasil);  
  
//
```

8. Buatlah program, yang menerima serangkaian integer (berhenti saat menerima angka 0 atau saat menerima angka yang sama berurutan), lalu menghitung nilai penjumlahan dari angka-angka tersebut.



The screenshot shows a Java IDE with a toolbar at the top containing icons for source, history, undo, redo, search, and other development tools. Below the toolbar, the source code is displayed in a text editor. The code is a Java program that reads a sequence of integers from the user until it encounters a 0 or a duplicate value. It then prints the sum of the entered numbers. The code is as follows:

```
// NO 8
while(nilai !=0 && nilai != nilai2){
    nilai2 = nilai;
    System.out.print("Masukan angka: ");
    nilai = input.nextInt();
    hasil = hasil + nilai;
}
System.out.print("Hasil : " + hasil);
}
```