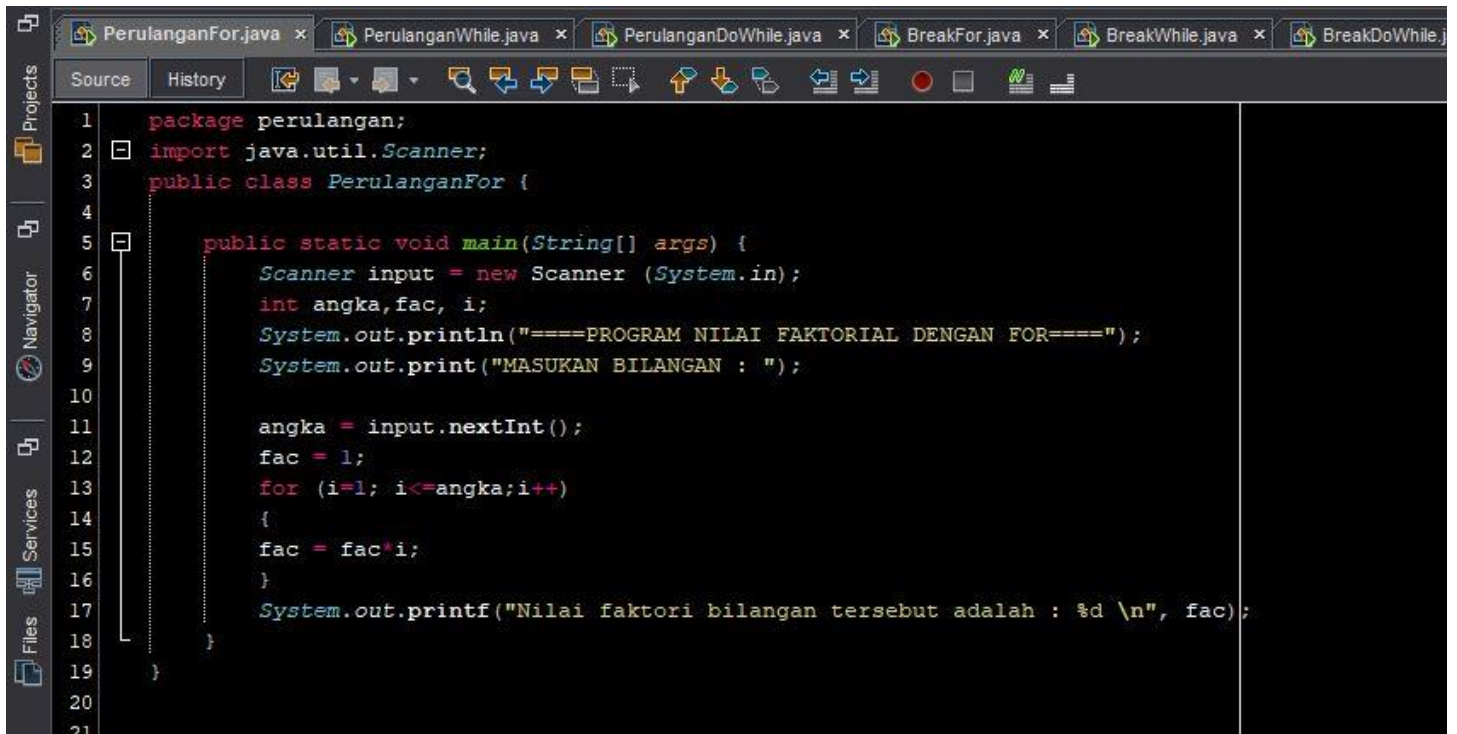


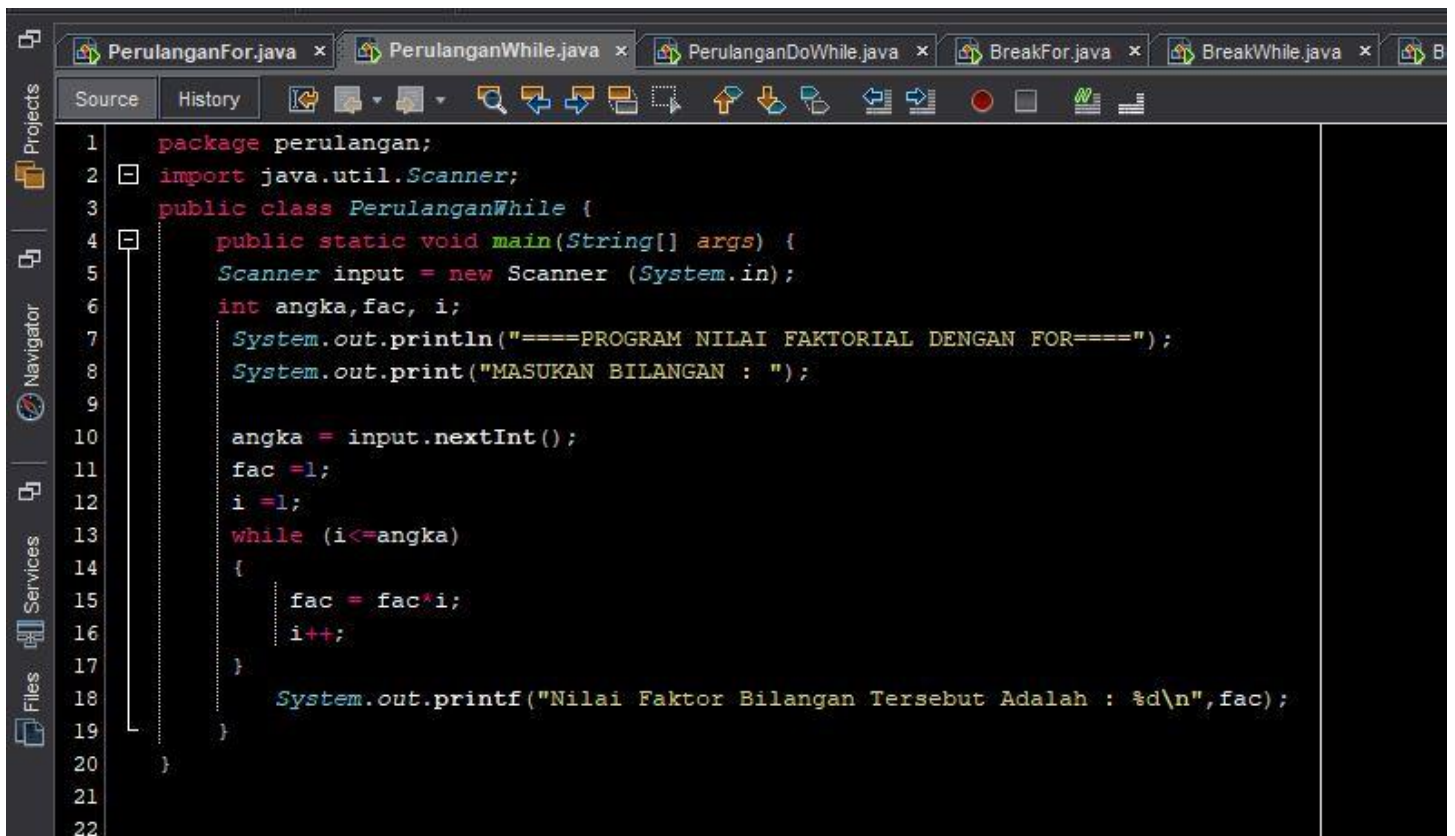
LAPORAN PRAKTIKUM

Nama : AHMAD RUDIANTO

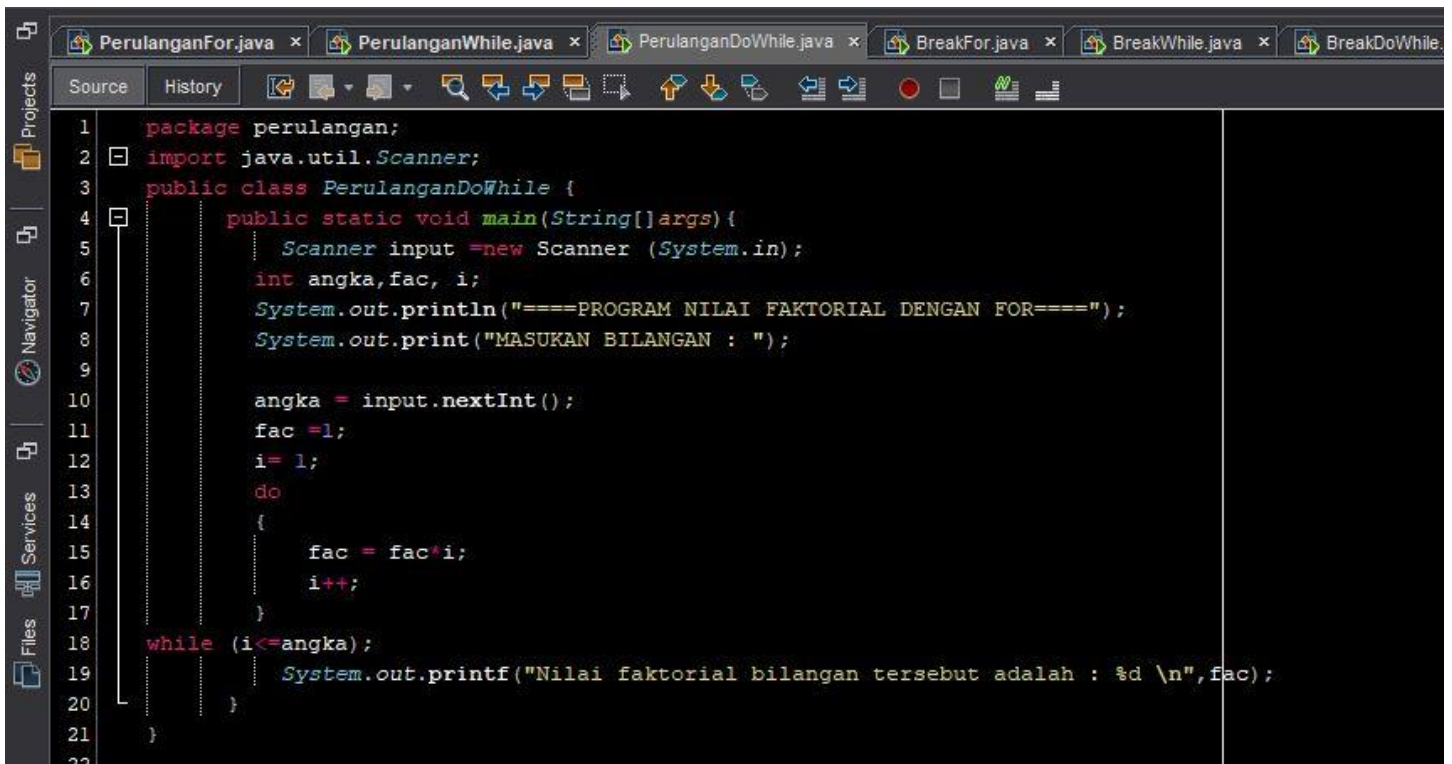
Nim : 21157201114



```
1 package perulangan;
2 import java.util.Scanner;
3 public class PerulanganFor {
4
5     public static void main(String[] args) {
6         Scanner input = new Scanner (System.in);
7         int angka,fac, i;
8         System.out.println("====PROGRAM NILAI FAKTORIAL DENGAN FOR====");
9         System.out.print("MASUKAN BILANGAN : ");
10
11         angka = input.nextInt();
12         fac = 1;
13         for (i=1; i<=angka;i++)
14         {
15             fac = fac*i;
16         }
17         System.out.printf("Nilai faktori bilangan tersebut adalah : %d \n", fac);
18     }
19 }
20
21
```

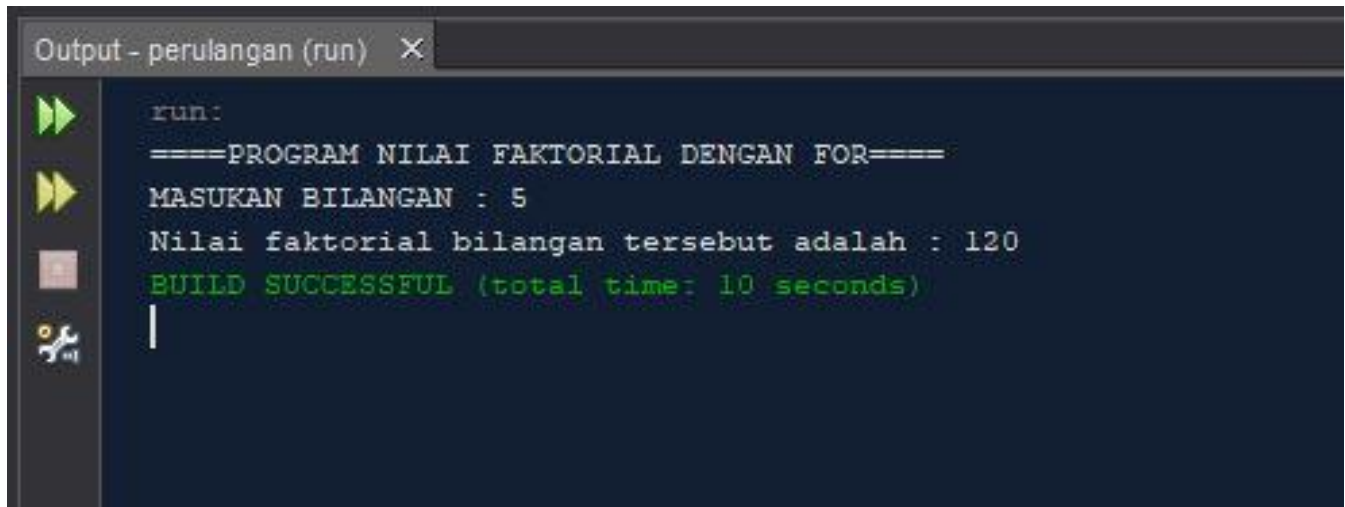


```
1 package perulangan;
2 import java.util.Scanner;
3 public class PerulanganWhile {
4     public static void main(String[] args) {
5         Scanner input = new Scanner (System.in);
6         int angka,fac, i;
7         System.out.println("====PROGRAM NILAI FAKTORIAL DENGAN FOR====");
8         System.out.print("MASUKAN BILANGAN : ");
9
10         angka = input.nextInt();
11         fac =1;
12         i =1;
13         while (i<=angka)
14         {
15             fac = fac*i;
16             i++;
17         }
18         System.out.printf("Nilai Faktori Bilangan Tersebut Adalah : %d\n",fac);
19     }
20 }
21
22
```



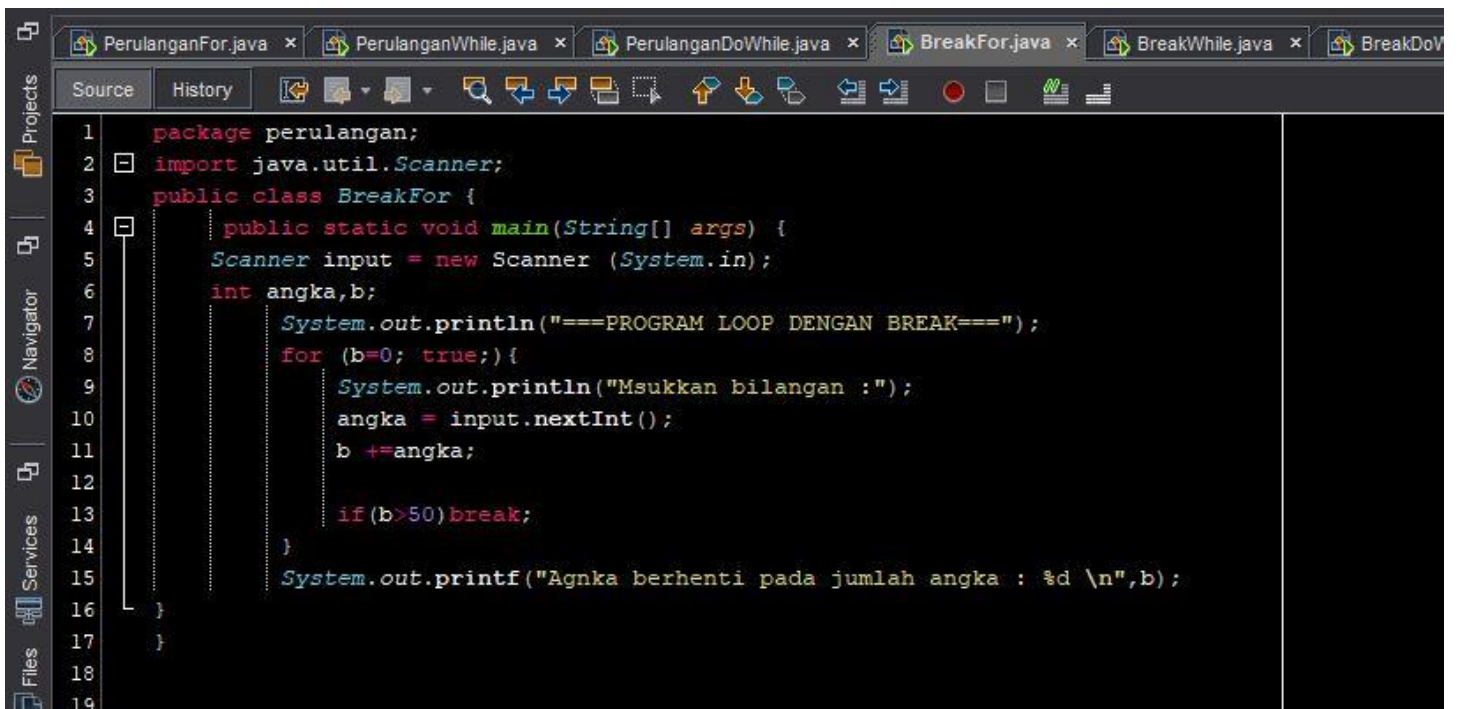
The screenshot shows an IDE with several tabs open: PerulanganFor.java, PerulanganWhile.java, PerulanganDoWhile.java, BreakFor.java, BreakWhile.java, and BreakDoWhile.java. The active tab is PerulanganDoWhile.java, which contains the following Java code:

```
1 package perulangan;
2 import java.util.Scanner;
3 public class PerulanganDoWhile {
4     public static void main(String[] args) {
5         Scanner input = new Scanner (System.in);
6         int angka, fac, i;
7         System.out.println("====PROGRAM NILAI FAKTORIAL DENGAN FOR====");
8         System.out.print("MASUKAN BILANGAN : ");
9
10        angka = input.nextInt();
11        fac = 1;
12        i = 1;
13        do
14        {
15            fac = fac*i;
16            i++;
17        }
18        while (i<=angka);
19        System.out.printf("Nilai faktorial bilangan tersebut adalah : %d \n", fac);
20    }
21 }
```

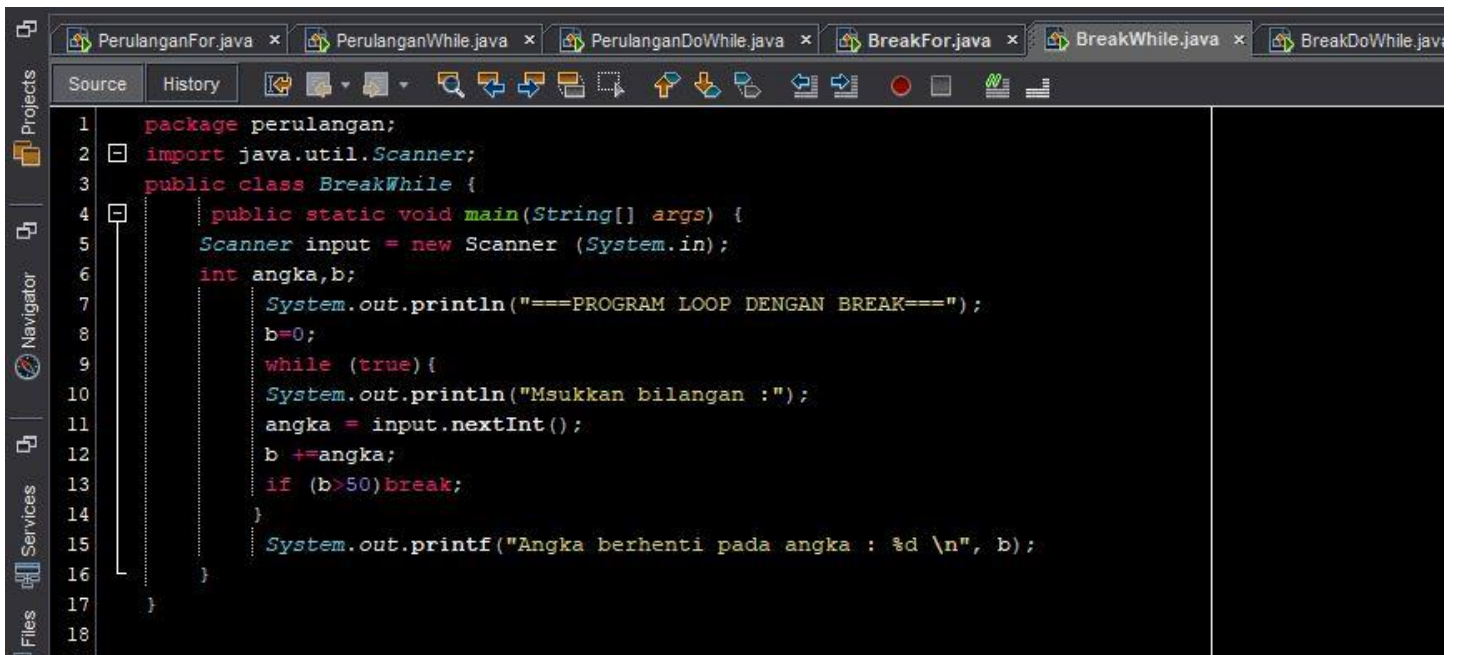


The screenshot shows the output console of the IDE, titled "Output - perulangan (run)". It displays the following text:

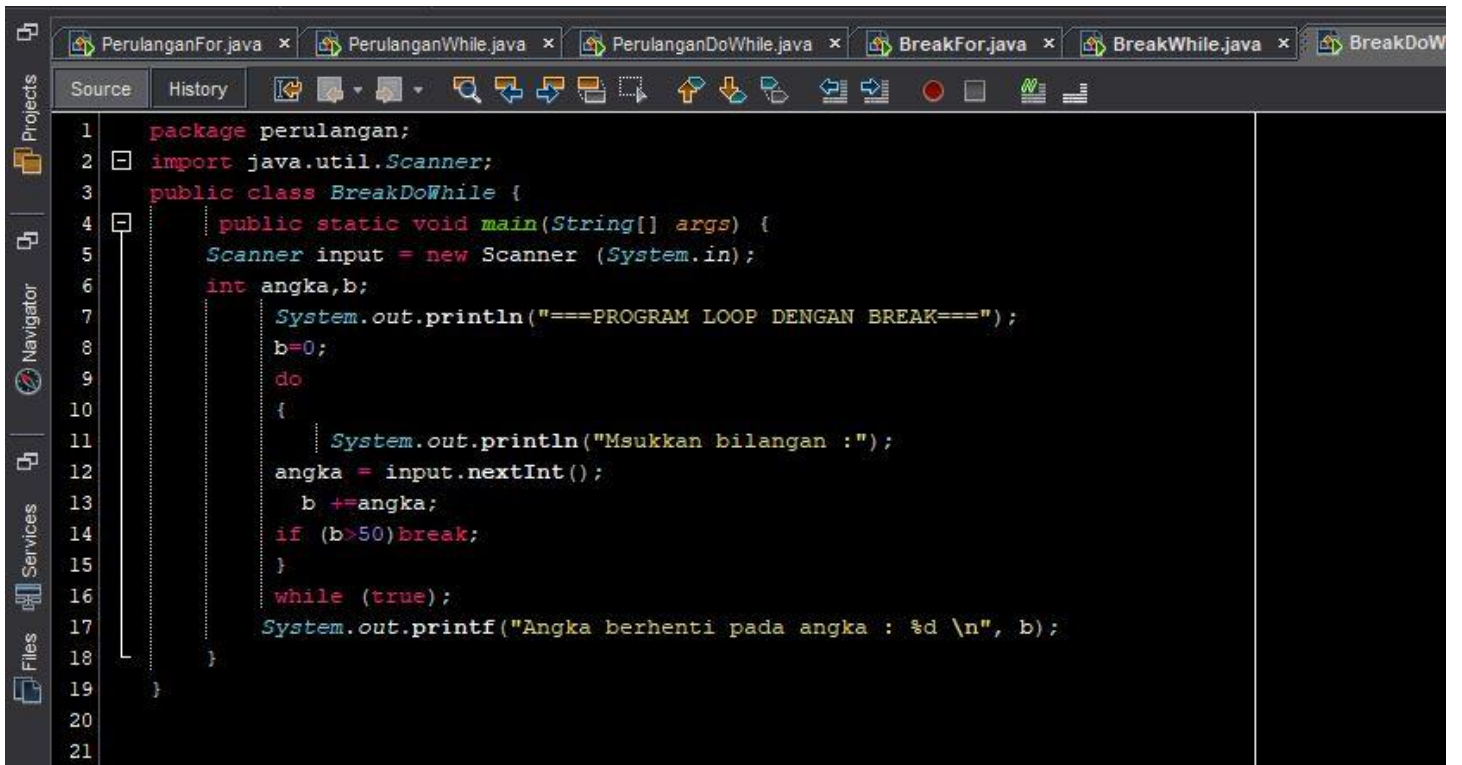
```
run:
====PROGRAM NILAI FAKTORIAL DENGAN FOR====
MASUKAN BILANGAN : 5
Nilai faktorial bilangan tersebut adalah : 120
BUILD SUCCESSFUL (total time: 10 seconds)
```



```
1 package perulangan;
2 import java.util.Scanner;
3 public class BreakFor {
4     public static void main(String[] args) {
5         Scanner input = new Scanner (System.in);
6         int angka,b;
7         System.out.println("===PROGRAM LOOP DENGAN BREAK===");
8         for (b=0; true;){
9             System.out.println("Msukkan bilangan :");
10            angka = input.nextInt();
11            b +=angka;
12
13            if(b>50)break;
14        }
15        System.out.printf("Agnka berhenti pada jumlah angka : %d \n",b);
16    }
17 }
18
19
```

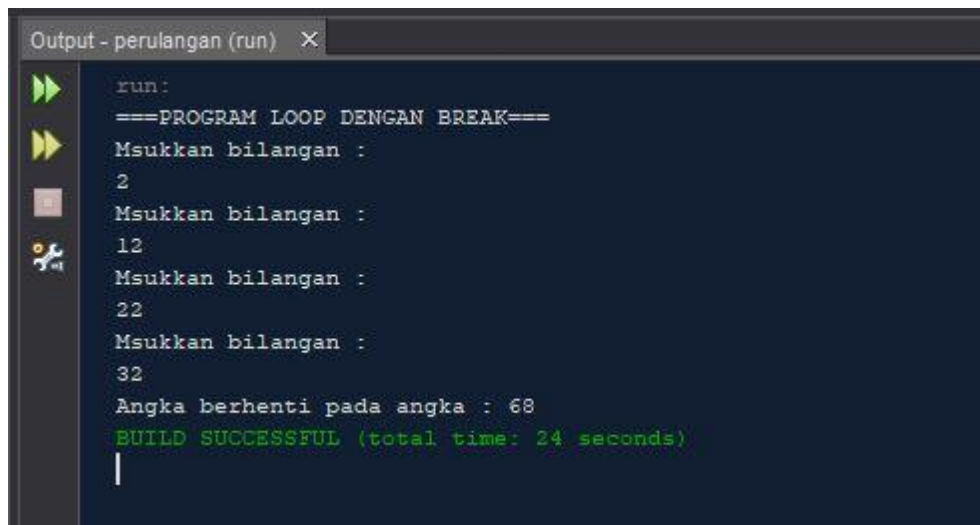


```
1 package perulangan;
2 import java.util.Scanner;
3 public class BreakWhile {
4     public static void main(String[] args) {
5         Scanner input = new Scanner (System.in);
6         int angka,b;
7         System.out.println("===PROGRAM LOOP DENGAN BREAK===");
8         b=0;
9         while (true){
10            System.out.println("Msukkan bilangan :");
11            angka = input.nextInt();
12            b +=angka;
13            if (b>50)break;
14        }
15        System.out.printf("Angka berhenti pada angka : %d \n", b);
16    }
17 }
18
19
```



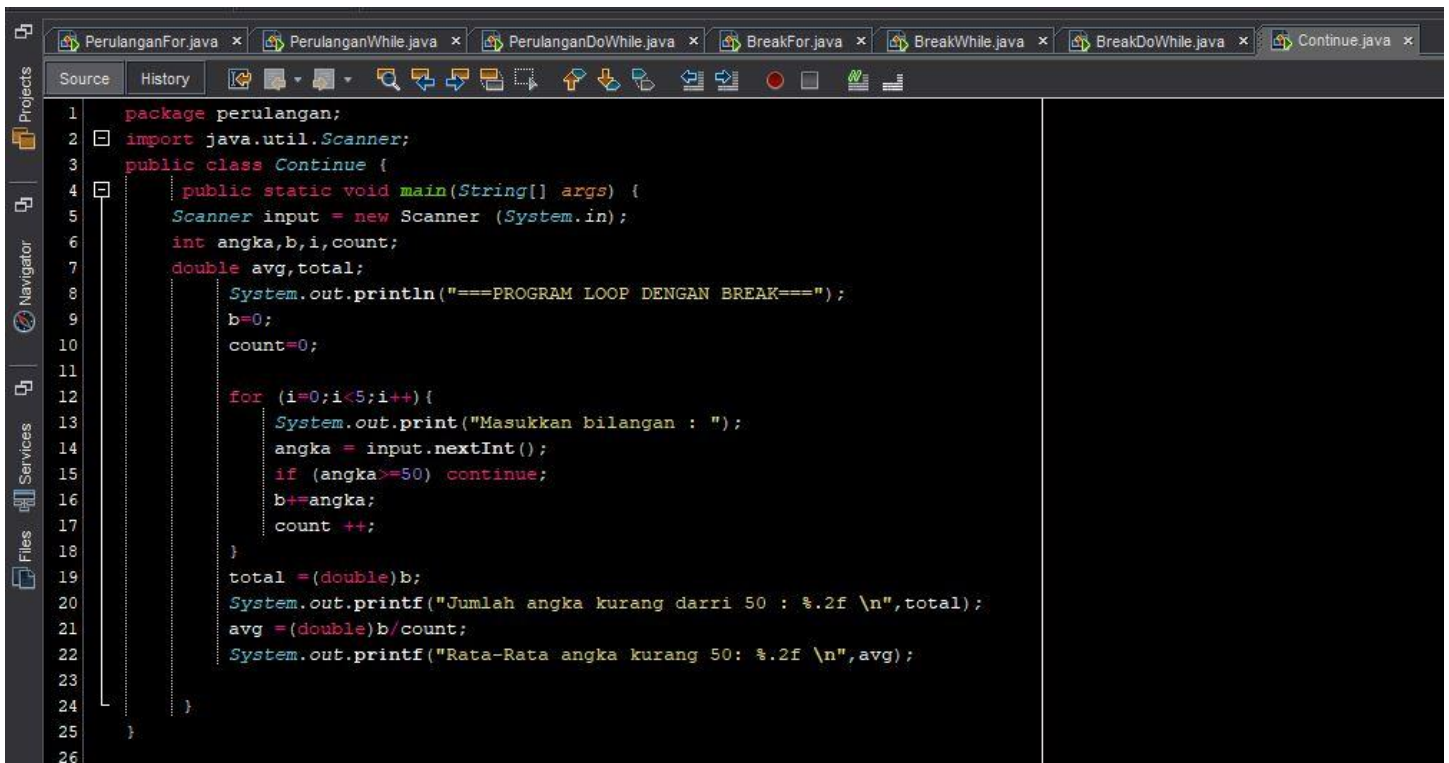
The screenshot shows an IDE with several tabs open: PerulanganFor.java, PerulanganWhile.java, PerulanganDoWhile.java, BreakFor.java, BreakWhile.java, and BreakDoWhile.java. The active tab is BreakDoWhile.java. The code is as follows:

```
1 package perulangan;
2 import java.util.Scanner;
3 public class BreakDoWhile {
4     public static void main(String[] args) {
5         Scanner input = new Scanner (System.in);
6         int angka,b;
7         System.out.println("===PROGRAM LOOP DENGAN BREAK===");
8         b=0;
9         do
10            {
11                System.out.println("Msukkan bilangan :");
12                angka = input.nextInt();
13                b +=angka;
14                if (b>50)break;
15            }
16         while (true);
17         System.out.printf("Angka berhenti pada angka : %d \n", b);
18     }
19 }
20
21
```



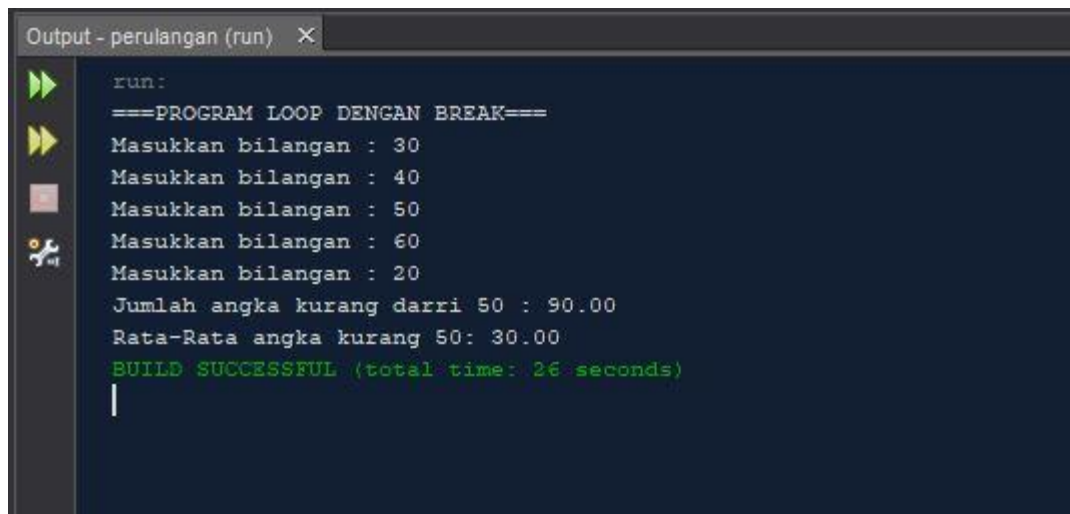
The screenshot shows the output console of the IDE. The output is as follows:

```
Output - perulangan (run) X
run:
===PROGRAM LOOP DENGAN BREAK===
Msukkan bilangan :
2
Msukkan bilangan :
12
Msukkan bilangan :
22
Msukkan bilangan :
32
Angka berhenti pada angka : 68
BUILD SUCCESSFUL (total time: 24 seconds)
```

The screenshot shows an IDE with multiple tabs open: PerulanganFor.java, PerulanganWhile.java, PerulanganDoWhile.java, BreakFor.java, BreakWhile.java, BreakDoWhile.java, and Continue.java. The active tab is Continue.java, which contains the following Java code:

```
1 package perulangan;
2 import java.util.Scanner;
3 public class Continue {
4     public static void main(String[] args) {
5         Scanner input = new Scanner (System.in);
6         int angka,b,i,count;
7         double avg,total;
8         System.out.println("===PROGRAM LOOP DENGAN BREAK===");
9         b=0;
10        count=0;
11
12        for (i=0;i<5;i++){
13            System.out.print("Masukkan bilangan : ");
14            angka = input.nextInt();
15            if (angka>=50) continue;
16            b+=angka;
17            count ++;
18        }
19        total =(double)b;
20        System.out.printf("Jumlah angka kurang darri 50 : %.2f \n",total);
21        avg =(double)b/count;
22        System.out.printf("Rata-Rata angka kurang 50: %.2f \n",avg);
23    }
24 }
25
26
```



The screenshot shows the output window titled "Output - perulangan (run)". The output is as follows:

```
run:
===PROGRAM LOOP DENGAN BREAK===
Masukkan bilangan : 30
Masukkan bilangan : 40
Masukkan bilangan : 50
Masukkan bilangan : 60
Masukkan bilangan : 20
Jumlah angka kurang darri 50 : 90.00
Rata-Rata angka kurang 50: 30.00
BUILD SUCCESSFUL (total time: 26 seconds)
```