

PRAKTIKUM PEMROGRAMAN DASAR I : STRUKTUR KONTROL

NRP : 171111051

NAMA : M Irfan Syarifuddin

KELAS : B1

Aktivitas 4

Buatlah *project* untuk menampilkan deret bilangan seperti berikut ini :

1 2 3 4 5 6 7 8 9 10

20 19 18 17 16 15 14 13 12 11

21 22 23 24 25 26 27 28 29 30

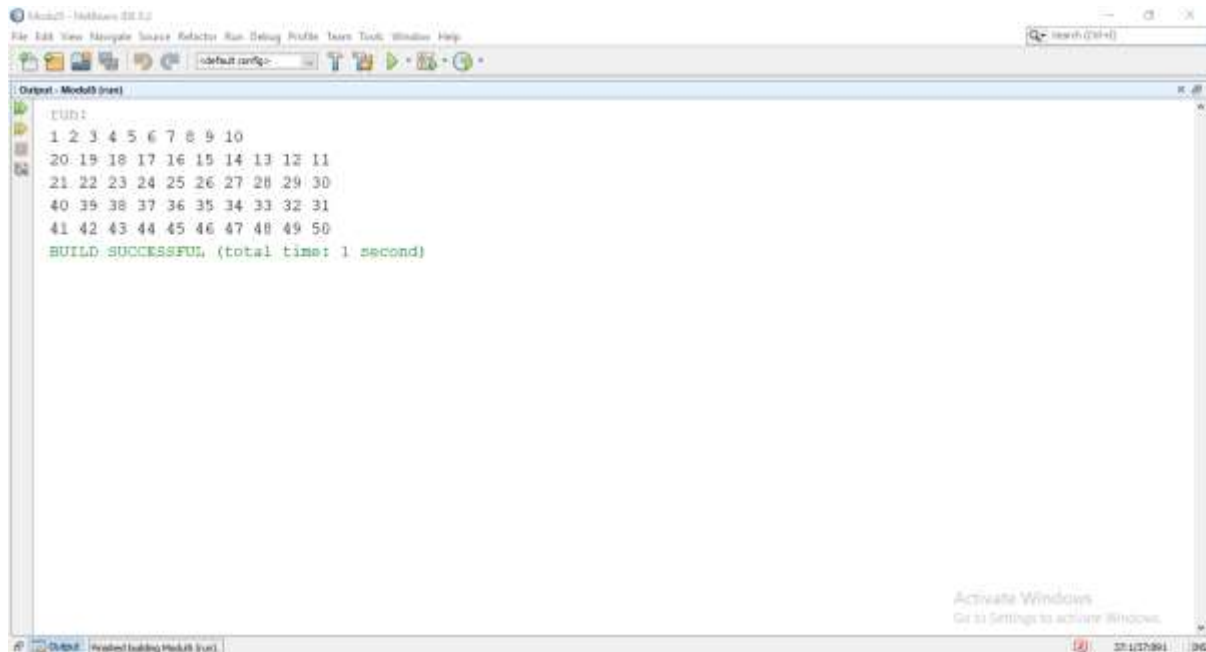
40 39 38 37 36 35 34 33 32 31

41 42 43 44 45 46 47 48 49 50

Script :

```
1. /*
2.  * To change this license header, choose License Headers in Project Properties.
3.  * To change this template file, choose Tools | Templates
4.  * and open the template in the editor.
5.  */
6. package modul5;
7.
8. /**
9.  *
10.  * @author Irfan
11.  */
12. public class Mod4 {
13.
14.     public static void main(String[] args) {
15.         int akhir = 10;
16.         int awal = 0;
17.         int a = 0;
18.
19.         for (int x = 1; x <= 5; x++) {
20.             if (x % 2 != 0) {
21.                 awal = awal + 1;
22.                 for (a = awal; a <= akhir; a++) {
23.                     System.out.print(a + " ");
24.                 }
25.                 System.out.println("");
26.             } else {
27.                 awal = a + 9;
28.                 for (a = awal; a > akhir; a--) {
29.                     System.out.print(a + " ");
30.                 }
31.                 akhir = awal + 10;
32.                 System.out.println("");
33.             }
34.         }
35.     }
36. }
```

Screenshot :



Latihan

Buatlah *project* dengan tampilan seperti di bawah ini :

NRP	Tugas	UTS	UAS	Nilai Akhir	Grade
111	40	50	60	Output	Output

NRP, Tugas, UTS dan UAS diinputkan, kemudian buatlah proses untuk menghitung nilai akhir dan *grade*-nya dengan ketentuan **Nilai akhir = Tugas * 10% + UTS * 30% + UAS * 60%** dan *grade* :

Grade	Rentang Nilai
A	80 – 100
B	70 – 79
C	56 – 69
D	44 – 55
E	0 – 43

Catatan : perulangan akan berhenti bila NRP diisi 0.

Script :

```
1. /*
2.  * To change this license header, choose License Headers in Project Properties.
3.  * To change this template file, choose Tools | Templates
4.  * and open the template in the editor.
5.  */
6. package modul5;
7. import java.util.Scanner;
8. /**
9.  *
10.  * @author Irfan
11.  */
12. public class chill {
13.     public static void main(String[] args) {
14.         int nilaiuts;
15.         int nilaitugas;
16.         int nilaiuas;
17.         int nrp;
18.         char grade='0';
```

```

19.         Scanner sc = new Scanner(System.in);
20.         System.out.println("Masukkan NRP Anda: ");
21.         nrp = sc.nextInt();
22.         if (nrp == 0){
23.             System.out.println("");
24.         }else{
25.             System.out.print("Masukkan Nilai UTS Anda: ");
26.             nilaiuts = sc.nextInt(); //0.3
27.             System.out.print("Masukkan Nilai Tugas Anda: ");
28.             nilaitugas = sc.nextInt(); //0.2
29.             System.out.print("Masukkan Nilai UAS Anda: ");
30.             nilaiuas = sc.nextInt(); //0.5
31.             double nilaiakhir=(nilaitugas*0.1)+(nilaiuts*0.3)+(nilaiuas*0.6);
32.             if ((nilaiakhir >=80)&&(nilaiakhir <=100)){
33.                 grade = 'A';
34.             }else if ((nilaiakhir>=70)&&(nilaiakhir<80)){
35.                 grade = 'B';
36.             }else if ((nilaiakhir>=56)&&(nilaiakhir<70)){
37.                 grade = 'C';
38.             }else if ((nilaiakhir>=44)&&(nilaiakhir<56)){
39.                 grade = 'D';
40.             }else if ((nilaiakhir>=0)&&(nilaiakhir<44)){
41.                 grade = 'E';
42.             }else{
43.             }
44.         }
45.         System.out.println("-----");
46.         System.out.println("|\\t\\tNRP\\t|\\tTugas\\t|\\tUTS\\t|\\tUAS\\t|\\tNilai Ak
47.         hir\\t|\\tGrade\\t|");
48.         System.out.println("\\t " + nrp + "\\t\\t" + nilaitugas + "\\t\\t" + ni
49.         laiuts+"\\t\\t" + nilaiuas + "\\t\\t" + nilaiakhir + "\\t\\t\\t" + grade + "\\t|");
50.         System.out.println("-----");
51.     }
52.     }}

```

Screenshot :

The screenshot shows the NetBeans IDE interface. The 'Output' window at the bottom displays the following text:

```

run:
Masukkan NRP Anda:
171111051
Masukkan Nilai UTS Anda: 90
Masukkan Nilai Tugas Anda: 70
Masukkan Nilai UAS Anda: 60

```

NRP	Tugas	UTS	UAS	Nilai Akhir	Grade
171111051	70	90	60	70.0	B

Below the table, the output window shows:

```

BUILD SUCCESSFUL (total time: 9 seconds)

```

