NRP: 17111051

Nama: M Irfan Syarifuddin

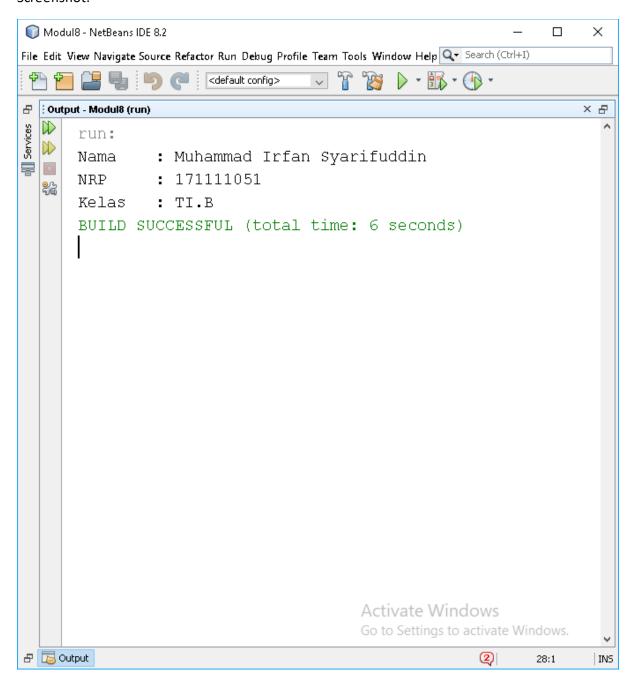
Kelas: B1

Aktivitas Dan Latihan Modul 8 – PRAKTIKUM PEMROGRAMAN DASAR 1

1. Buatlah sebuah function sederhana untuk menampilkan nama, NRP, dan kelas dengan menggunakan void function.

Sript:

```
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 modul8;
7.
8. /**
9. *
10. * @author Irfan
11. */
12. public class Modul8 {
13.
14.
        public static void nama(){
            String nama ="Muhammad Irfan Syarifuddin";
String kelas = "TI.B";
15.
16.
17.
             int nrp = 171111051;
             System.out.println("Nama \t: "+nama);
System.out.println("NRP \t: "+nrp);
18.
19.
             System.out.println("Kelas \t: "+ kelas);
20.
21.
22.
23.
         public static void main(String[] args) {
             // TODO code application logic here
24.
25.
              nama();
26.
       }
27.}
```

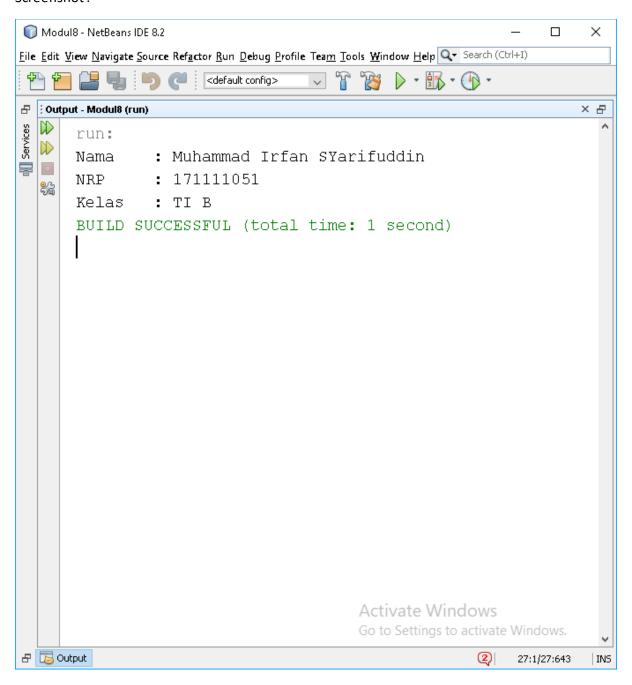


2. Modifikasi function yang telah Anda buat pada soal nomor 1 dengan nama, NRP, dan kelas tersebut diinputkan di main function dan menjadi parameter pemanggilnya.

Script:

```
    * To change this license header, choose License Headers in Project Properties.

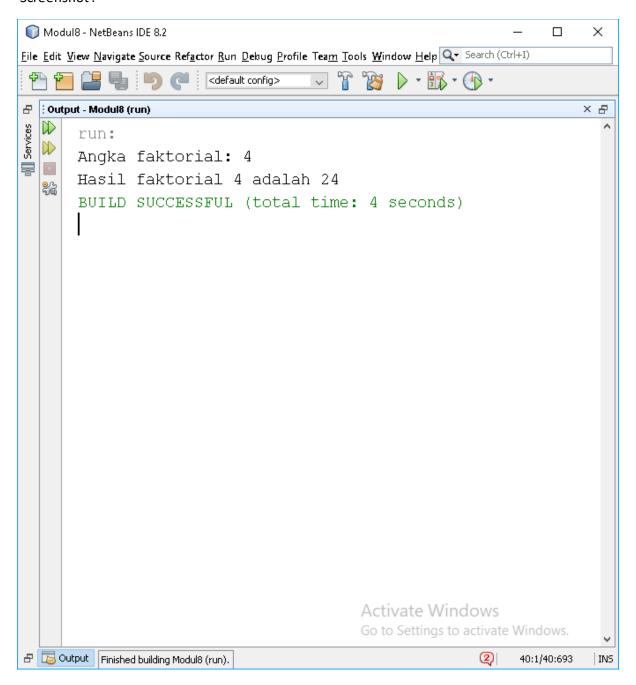
2. * To change this template file, choose Tools | Templates
3. * and open the template in the editor.
4. */
5. package modul8;
6.
7. /**
8.
9. * @author Irfan
10. */
11. public class Modul8yanglain {
12.
13.
       public static void nama(String nama, int nrp, String kelas){
14.
            System.out.println("Nama \t: "+nama);
15.
            System.out.println("NRP \t: "+nrp);
16.
17.
            System.out.println("Kelas \t: "+ kelas);
18.
       }
19.
20.
        public static void main(String[] args) {
21.
            // TODO code application logic here
            nama("Muhammad Irfan SYarifuddin", 171111051, "TI B");
22.
23.
24.}
```



3. Buatlah sebuah function untuk menghitung bilangan faktorial dengan nilai n diinputkan dari keyboard.

Script:

```
1. /*
3. * To change this template file, choose License Headers : 4. * and open the template in the editor. 5. */
2. * To change this license header, choose License Headers in Project Properties.
package modul8;
7. import java.util.Scanner;
8. /**
9.
10. * @author Irfan
11. */
12. public class Modul8yanglain1 {
13.
        public static void main(String[] args) {
14.
             System.out.print("Angka faktorial: ");
15.
16.
17.
             Scanner sc = new Scanner(System.in);
18.
             int n = sc.nextInt();
19.
20.
             faktorial(n);
21.
22.
23.
24.
        static void faktorial(int nn) {
25.
26.
             int hitungan, faktor = 1;
27.
             for ( hitungan = 1; hitungan <= nn; hitungan++) {</pre>
28.
29.
30.
                 faktor = faktor * hitungan;
31.
32.
33.
34.
             System.out.println("Hasil faktorial "+ nn +" adalah " + faktor);
35.
36.
37.
38.}
```



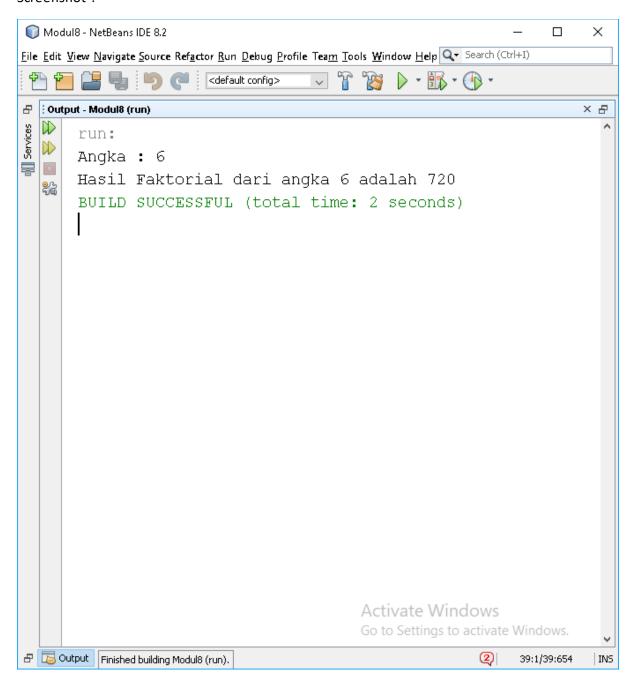
4. Buatlah sebuah function yang sama seperti pada soal nomor 3, namun function bekerja secara rekursif.

Script:

```
1. /*
2. * To change this license header, choose License Headers in Project Properties.

* To change this template file, choose Tools | Templates
4. * and open the template in the editor.
5. */
6. package modul8;

7. import java.util.Scanner;
8. /**
9. *
10. * @author Irfan
11. */
12. public class Modul8yanglain2 {
13. static int showFak(int n) {
14.
15.
             if (n == 1){
16.
17.
                 return 1;
18.
19.
             } else {
20.
21.
                 return( n * showFak(n-1) );
22.
23.
             }
24.
25.
        }
26.
27.
        public static void main(String[] args) {
28.
29.
             Scanner sc = new Scanner(System.in);
             System.out.print("Angka : ");
30.
31.
             int angkaFak = sc.nextInt();
32.
33.
             System.out.println("Hasil Faktorial dari angka "+angkaFak+" adalah " + show
   Fak(angkaFak));
34.
35.
        }
36.
37.}
```



Latihan

Script:

```
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 modul8;
7. import java.util.Scanner;
8. /**
9. *
10. * @author Irfan
11. */
12. public class Tugas8 {
13.
       static double faktorial (double angka){
14.
        double hasil =-1;
                    for (double rpt = angka; rpt>1; rpt-- ){
15.
16.
                        hasil= hasil-rpt;
17.
18.
                        return hasil;
19.
        }
20.
21. public static void main (String []args){
22. Scanner sc = new Scanner (System.in);
23. double jumlah;
24. System.out.print("Masukkan Angka : ");
25. double input =sc.nextInt();
26. System.out.println(input+ "/"+input+"!");
27. jumlah = input/faktorial(input);
28. System.out.println ("Hasil \t\t: "+ jumlah);
29.}
30.}
```

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