M. IBNU LUTHFI AZHAR 200401067

TI-B2

Tugas: encapsulation

```
1 package com.company;
 3 class Vaccine {
      public String name;
 5
      public String address;
 6
 7
      private String nik;
 8
      private String vaccineSchedule;
 9
10
      private String vaccineName;
      private int vaccineEfficacy;
11
12
13
      void Print(){
14
           System.out.println("Pekanbaru Vaccination Data");
15
16
      public void setNik(String nik) {
17
18
          this.nik = nik;
19
      }
20
21
      public void setVaccineSchedule(String vaccineSchedule) {
           this.vaccineSchedule = vaccineSchedule;
22
23
      }
24
      public String getNik() {
25
           return nik;
26
27
      }
28
      public String getVaccineSchedule() {
29
           return vaccineSchedule;
30
31
      }
32
33
      public void setVaccineName(String vaccineName) {
34
           this.vaccineName = vaccineName;
35
      }
36
37
      public String getVaccineName() {
           return vaccineName;
38
39
      }
40
41
      public void setVaccineEfficacy(int vaccineEfficacy) {
42
           this.vaccineEfficacy = vaccineEfficacy;
43
      }
44
```

```
45
       public String getVaccineEfficacy() {
46
           return vaccineEfficacy + "%";
47
48 }
49
50 class MadaniHospital extends Vaccine {
51
       String roomNumber;
52
53
       void Print(){
54
           System.out.println("----");
           System.out.println("NIK: " + getNik());
55
           System.out.println("Name: " + name);
56
57
           System.out.println("Address: " + address);
58
59
           System.out.println("Room Number: " + roomNumber);
60
           System.out.println("Vaccine Schedule: " + getVaccineSchedule());
           System.out.println("Vaccine Name: " + getVaccineName());
61
62
           System.out.println("Vaccine Efficacy: " + getVaccineEfficacy());
63
64 }
65
66 class EkaHospital extends Vaccine {
67
       EkaHospital(){
68
           setVaccineName("Moderna");
69
           setVaccineSchedule("3");
70
           setVaccineEfficacy(100);
71
72
73
       void Print(){
           System.out.println("----");
74
75
           System.out.println("NIK: " + getNik());
76
           System.out.println("Name: " + name);
77
           System.out.println("Address: " + address);
78
           System.out.println("Vaccine Schedule: " + getVaccineSchedule());
           System.out.println("Vaccine Name: " + getVaccineName());
79
80
           System.out.println("Vaccine Efficacy: " + getVaccineEfficacy());
81
82 }
83
84 public class Main {
85
       public static void main(String[] args) {
86
87
           MadaniHospital madani = new MadaniHospital();
           madani.setNik("111111");
88
89
           madani.name = "M. IBNU LUTHFI AZHAR";
90
           madani.address = "Jalan Surya";
91
           madani.setVaccineName("Pfizer");
92
           madani.setVaccineSchedule("3");
           madani.setVaccineEfficacy(98);
93
94
           madani.Print();
95
96
           EkaHospital eka = new EkaHospital();
97
           eka.setNik("222222");
           eka.name = "LOREM IPSUM";
98
99
           eka.address = "Jalan Dolor";
100
           eka.Print();
101
       }
102 }
103
```

Hasil output

