

Nama : Arindita Prihastama

NIM : L200180058

Kelas : B

Modul 2

The screenshot shows a Windows desktop with three open windows. On the left is a Command Prompt window showing the execution of Java commands to compile and run the Roti application. In the center is a Notepad window titled 'RotiDemo.java - Notepad' containing the main class code. On the right is another Notepad window titled 'Roti.java - Notepad' containing the Roti class code. The Command Prompt output shows the directory listing for D:\Smt 3\Praktikum PBO\Modul 2, the compilation of Roti.java and RotiDemo.java, and the execution of RotiDemo, which prints the details of a Roti object: Warna Roti : Hijau, Rasa Roti : Pandan, Berat Roti : 30, and grHarga Roti : Rp. 6000.0.

```
Microsoft Windows [Version 10.0.17763.737]
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C:\Users\Lenovo>cd smt 3/praktikum pbo/modul 2

D:\Smt 3\Praktikum PBO\Modul 2>dir
Volume in drive D is New Volume
Volume Serial Number is AC99-48BA

Directory of D:\Smt 3\Praktikum PBO\Modul 2

25/09/2019  21:57    <DIR>          .
25/09/2019  21:57    <DIR>          ..
20/09/2019  15:47             413 Car.java
20/09/2019  15:48             310 CarDemo.java
20/09/2019  16:02             534 Hewan.java
20/09/2019  16:07             431 HewanDemo.java
13/09/2019  14:51             108 program.java
13/09/2019  15:35             530 Roti.java
13/09/2019  15:36             225 RotiDemo.java
20/09/2019  15:06             621 Smartphone.java
20/09/2019  15:08             299 SmartphoneDemo.java
               9 File(s)              3,471 bytes
               2 Dir(s)          406,912,507 bytes free

D:\Smt 3\Praktikum PBO\Modul 2>javac Roti.java

D:\Smt 3\Praktikum PBO\Modul 2>javac RotiDemo.java

D:\Smt 3\Praktikum PBO\Modul 2>java RotiDemo
Warna Roti : Hijau
Rasa Roti : Pandan
Berat Roti : 30
grHarga Roti : Rp. 6000.0

D:\Smt 3\Praktikum PBO\Modul 2>
```

```
public class RotiDemo{
    public static void main(String[] args){
        Roti roti = new Roti();
        roti.beriWarna("Hijau");
        roti.beriRasa("Pandan");
        roti.timbangBerat(30);
        roti.hargaJual(6000);
        roti.infoRoti();
    }
}
```

```
public class Roti{
    String warna;
    String rasa;
    int berat;
    double harga;

    void beriWarna(String warnaRoti){
        warna = warnaRoti;
    }

    void beriRasa(String rasaRoti){
        rasa = rasaRoti;
    }

    void timbangBerat(int beratRoti){
        berat = beratRoti;
    }

    void hargaJual(double hargaRoti){
        harga = hargaRoti;
    }

    void infoRoti(){
        System.out.println(
            "Warna Roti : " + warna + "\n" +
            "Rasa Roti : " + rasa + "\n" +
            "Berat Roti : " + berat + "\n" + "gr" +
            "Harga Roti : Rp. " + harga);
    }
}
```

The screenshot shows a Windows desktop with three open windows. On the left is a Command Prompt window showing the execution of Java commands to compile and run the Smartphone application. In the center is a Notepad window titled 'SmartphoneDemo.java - Notepad' containing the main class code. On the right is another Notepad window titled 'Smartphone.java - Notepad' containing the Smartphone class code. The Command Prompt output shows the directory listing for D:\Smt 3\Praktikum PBO\Modul 2, the compilation of Smartphone.java and SmartphoneDemo.java, and the execution of SmartphoneDemo, which prints the details of a Smartphone object: Warna Smartphone : Starry Black, Merek Smartphone : VIVO Y93, Berat Smartphone : 225, and grHarga Smartphone : Rp. 2099000.0.

```
D:\Smt 3\Praktikum PBO\Modul 2>j
D:\Smt 3\Praktikum PBO\Modul 2>j
D:\Smt 3\Praktikum PBO\Modul 2>j
Warna Roti : Hijau
Rasa Roti : Pandan
Berat Roti : 30
grHarga Roti : Rp. 6000.0

D:\Smt 3\Praktikum PBO\Modul 2>cd
Volume in drive D is New Volume
Volume Serial Number is AC99-48BA

Directory of D:\Smt 3\Praktikum

25/09/2019  21:59    <DIR>          .
25/09/2019  21:59    <DIR>          ..
20/09/2019  15:47             413 Car.java
20/09/2019  15:48             310 CarDemo.java
20/09/2019  16:02             534 Hewan.java
20/09/2019  16:07             431 HewanDemo.java
13/09/2019  14:51             108 program.java
25/09/2019  21:58             130 Roti.class
13/09/2019  15:35             530 Roti.java
25/09/2019  21:59             518 RotiDemo.class
13/09/2019  15:36             225 RotiDemo.java
20/09/2019  15:06             621 Smartphone.java
20/09/2019  15:08             299 SmartphoneDemo.java
               11 File(s)             5,119 bytes
               2 Dir(s)          406,912,503 bytes free

D:\Smt 3\Praktikum PBO\Modul 2>javac Smartphone.java

D:\Smt 3\Praktikum PBO\Modul 2>javac SmartphoneDemo.java

D:\Smt 3\Praktikum PBO\Modul 2>java SmartphoneDemo
Warna Smartphone : Starry Black
Merek Smartphone : VIVO Y93
Berat Smartphone : 225
grHarga Smartphone : Rp. 2099000.0

D:\Smt 3\Praktikum PBO\Modul 2>
```

```
public class SmartphoneDemo{
    public static void main(String[] args){
        Smartphone smartphone = new Smartphone();
        smartphone.beriWarna("Starry Black");
        smartphone.beriMerek("VIVO Y93");
        smartphone.timbangBerat(225);
        smartphone.hargaJual(2099000);
        smartphone.infoSmartphone();
    }
}
```

```
public class Smartphone{
    String warna;
    String merek;
    int berat;
    double harga;

    void beriWarna(String warnaSmartphone){
        warna = warnaSmartphone;
    }

    void beriMerek(String merekSmartphone){
        merek = merekSmartphone;
    }

    void timbangBerat(int beratSmartphone){
        berat = beratSmartphone;
    }

    void hargaJual(double hargaSmartphone){
        harga = hargaSmartphone;
    }

    void infoSmartphone(){
        System.out.println(
            "Warna Smartphone : " + warna + "\n" +
            "Merek Smartphone : " + merek + "\n" +
            "Berat Smartphone : " + berat + "\n" + "gr" +
            "Harga Smartphone : Rp. " + harga);
    }
}
```

```
Command Prompt
Warna Smartphone : Starry Black
Merek Smartphone : VIVO Y93
Berat Smartphone : 225
grHarga Smartphone : Rp. 2099000.0

D:\Smt 3\Praktikum PBO\Modul 2>dir
Volume in drive D is New Volume
Volume Serial Number is AC99-48BA

Directory of D:\Smt 3\Praktikum PBO\Modul 2

25/09/2019  22:00    <DIR>        .
25/09/2019  22:00    <DIR>        ..
20/09/2019  15:47             413 Car.java
20/09/2019  15:48             310 CarDemo.java
20/09/2019  16:02             534 Hewan.java
20/09/2019  16:07             431 HewanDemo.java
13/09/2019  14:51             108 program.java
25/09/2019  21:58           1.130 Roti.class
13/09/2019  15:35             530 Roti.java
25/09/2019  21:59             518 RotiDemo.class
13/09/2019  15:36             225 RotiDemo.java
25/09/2019  22:00           1.175 Smartphone.class
20/09/2019  15:06             621 Smartphone.java
25/09/2019  22:00             553 SmartphoneDemo.java
20/09/2019  15:08             299 SmartphoneDemo.java
13 File(s)              6.847 bytes
2 Dir(s) 406.912.499.712 bytes free

D:\Smt 3\Praktikum PBO\Modul 2>javac Car.java
D:\Smt 3\Praktikum PBO\Modul 2>javac CarDemo.java
D:\Smt 3\Praktikum PBO\Modul 2>java CarDemo
Cadence Mobil : 50
Speed Mobil : 20
Gear Mobil : 2

Cadence Mobil : 30
Speed Mobil : 10
Gear Mobil : 1

D:\Smt 3\Praktikum PBO\Modul 2>
```

```
CarDemo.java - Notepad
File Edit Format View Help
public class CarDemo {
    public static void main(String[] args) {
        Car car1 = new Car();
        Car car2 = new Car();

        car1.changeCadence(50);
        car1.speedUp(20);
        car1.changeGear(2);
        car1.printInfo();

        car2.changeCadence(30);
        car2.speedUp(10);
        car2.changeGear(1);
        car2.printInfo();
    }
}
```

```
Car.java - Notepad
File Edit Format View Help
public class Car {
    int cadence;
    int speed;
    int gear;

    void changeCadence(int carCadence){
        cadence = carCadence;
    }

    void speedUp(int carSpeed){
        speed = carSpeed;
    }

    void changeGear(int carGear){
        gear = carGear;
    }

    void printInfo(){
        System.out.println(
            "Cadence Mobil : " + cadence + "\n" +
            "Speed Mobil : " + speed + "\n" +
            "Gear Mobil : " + gear + "\n");
    }
}
```

```
Command Prompt
20/09/2019  15:47             413 Car.java
25/09/2019  22:02             469 CarDemo.java
20/09/2019  15:48             310 CarDemo.java
20/09/2019  16:02             534 Hewan.java
25/09/2019  22:13             424 HewanDemo.java
13/09/2019  14:51             108 program.java
25/09/2019  21:58           1.130 Roti.class
13/09/2019  15:35             530 Roti.java
25/09/2019  21:59             518 RotiDemo.class
13/09/2019  15:36             225 RotiDemo.java
25/09/2019  22:00           1.175 Smartphone.class
20/09/2019  15:06             621 Smartphone.java
25/09/2019  22:00             553 SmartphoneDemo.java
20/09/2019  15:08             299 SmartphoneDemo.java
15 File(s)              8.261 bytes
2 Dir(s) 406.912.491.520 bytes free

D:\Smt 3\Praktikum PBO\Modul 2>javac Hewan.java
D:\Smt 3\Praktikum PBO\Modul 2>javac HewanDemo.java
error: Class names, 'HewanDemo', are only
1 error

D:\Smt 3\Praktikum PBO\Modul 2>javac HewanDemo.java
D:\Smt 3\Praktikum PBO\Modul 2>java HewanDemo
Nama Hewan : Harimau
Jumlah Kaki : 4
Makanan : Daging
Type Hewan : Karnivora

Nama Hewan : Kerbau
Jumlah Kaki : 4
Makanan : Rumpot
Type Hewan : Omnivora

D:\Smt 3\Praktikum PBO\Modul 2>
```

```
HewanDemo.java - Notepad
File Edit Format View Help
public class HewanDemo {
    public static void main(String[] args) {
        Hewan hewan1 = new Hewan();
        Hewan hewan2 = new Hewan();

        hewan1.beriNama("Harimau");
        hewan1.beriKaki(4);
        hewan1.beriMakanan("Daging");
        hewan1.beriType("Karnivora");
        hewan1.printInfo();

        hewan2.beriNama("Kerbau");
        hewan2.beriKaki(4);
        hewan2.beriMakanan("Rumpot");
        hewan2.beriType("Omnivora");
        hewan2.printInfo();
    }
}
```

```
Hewan.java - Notepad
File Edit Format View Help
public class Hewan {
    String nama;
    int kaki;
    String makanan;
    String tipe;

    void beriNama(String namaHewan){
        nama = namaHewan;
    }

    void beriKaki(int kakiHewan){
        kaki = kakiHewan;
    }

    void beriMakanan(String makananHewan){
        makanan = makananHewan;
    }

    void beriType(String tipeHewan){
        tipe = tipeHewan;
    }

    void printInfo(){
        System.out.println(
            "Nama Hewan : " + nama + "\n" +
            "Jumlah Kaki : " + kaki + "\n" +
            "Makanan : " + makanan + "\n" +
            "Type Hewan : " + tipe + "\n");
    }
}
```

Command Prompt

Volume in drive D is New Volume
Volume Serial Number is AC99-488A

Directory of D:\Smt 3\Praktikum PBO\Modul 2

```
26/09/2019 19:35 <DIR> ..
26/09/2019 19:35 <DIR> .
25/09/2019 22:01 952 Car.class
20/09/2019 15:47 413 Car.java
25/09/2019 22:02 469 CarDemo.class
20/09/2019 15:48 310 CarDemo.java
26/09/2019 14:08 600 Dosen.java
26/09/2019 19:35
25/09/2019 22:13
```

DosenDemo.java - Notepad

```
File Edit Format View Help
public class DosenDemo{
    public static void main(String[] args){
        Dosen dosen = new Dosen();

        dosen.tampilkanNama("Regan Hanggyaru Pranadipta");
        dosen.tampilkanNik(200180058);
        dosen.tampilkanPendidikan("Oxford University");
        dosen.tampilkanTglLahir("7 Desember 1990");
        dosen.printInfo();
    }
}
```

Dosen.java - Notepad

```
File Edit Format View Help
public class Dosen {
    String nama;
    int nik;
    String pendidikan;
    String tglLahir;

    void tampilkanNama(String namaDosen) {
        nama = namaDosen;
    }

    void tampilkanNik(int nikDosen) {
        nik = nikDosen;
    }

    void tampilkanPendidikan(String pendidikanDosen) {
        pendidikan = pendidikanDosen;
    }

    void tampilkanTglLahir(String tglLahirDosen) {
        tglLahir = tglLahirDosen;
    }

    void printInfo() {
        System.out.println(
            "Nama Dosen : " + nama + "\n" +
            "NIK Dosen : " + nik + "\n" +
            "Pendidikan : " + pendidikan + "\n" +
            "Tanggal Lahir : " + tglLahir + "\n");
    }
}
```

D:\Smt 3\Praktikum PBO\Modul 2>javac Dosen.java

D:\Smt 3\Praktikum PBO\Modul 2>javac DosenDemo.java

D:\Smt 3\Praktikum PBO\Modul 2>java DosenDemo

Nama Dosen : Regan Hanggyaru Pranadipta
NIK Dosen : 200180058
Pendidikan : Oxford University
Tanggal Lahir : 7 Desember 1990

D:\Smt 3\Praktikum PBO\Modul 2>

Command Prompt

Directory of D:\Smt 3\Praktikum PBO\Modul 2

```
26/09/2019 19:47 <DIR> ..
26/09/2019 19:47 <DIR> .
25/09/2019 22:01 952 Car.class
20/09/2019 15:47 413 Car.java
25/09/2019 22:02 469 CarDemo.class
20/09/2019 15:48 310 CarDemo.java
26/09/2019 19:35 1.119 Dosen.class
26/09/2019 14:08 600 Dosen.java
26/09/2019 19:35 586 DosenDemo.class
26/09/2019 19:35 312 DosenDemo.java
25/09/2019 22:13
20/09/2019 16:02
25/09/2019 22:21
25/09/2019 22:13
26/09/2019 19:47
25/09/2019 23:02
25/09/2019 23:12
26/09/2019 19:47
13/09/2019 14:51
25/09/2019 21:58
13/09/2019 15:35
25/09/2019 21:59
13/09/2019 15:36
25/09/2019 22:00
20/09/2019 15:06
25/09/2019 22:00
20/09/2019 15:08
```

KaryawanDemo.java - Notepad

```
File Edit Format View Help
public class KaryawanDemo{
    public static void main(String[] args){
        Karyawan karyawan = new Karyawan();

        karyawan.tampilkanNama("Yohansyah Reza Mahendra");
        karyawan.tampilkanJabatan("General Manager");
        karyawan.tampilkanAlamat("Jayakarta");
        karyawan.tampilkanGaji(8000000);
        karyawan.printInfo();
    }
}
```

Karyawan.java - Notepad

```
File Edit Format View Help
public class Karyawan{
    String nama;
    String alamat;
    String jabatan;
    double gaji;

    void tampilkanNama(String namaKaryawan){
        nama = namaKaryawan;
    }

    void tampilkanJabatan(String jabatanKaryawan){
        jabatan = jabatanKaryawan;
    }

    void tampilkanAlamat(String alamatKaryawan){
        alamat = alamatKaryawan;
    }

    void tampilkanGaji(double gajiKaryawan){
        gaji = gajiKaryawan;
    }

    void printInfo(){
        System.out.println(
            "Nama Karyawan : " + nama + "\n" +
            "Jabatan Karyawan : " + jabatan + "\n" +
            "Alamat Karyawan : " + alamat + "\n" +
            "Gaji Karyawan : " + gaji + "\n" );
    }
}
```

D:\Smt 3\Praktikum PBO\Modul 2>javac Karyawan.java

D:\Smt 3\Praktikum PBO\Modul 2>javac KaryawanDemo.java

D:\Smt 3\Praktikum PBO\Modul 2>java KaryawanDemo

Nama Karyawan : Yohansyah Reza Mahendra
Jabatan Karyawan : General Manager
Alamat Karyawan : Metro Jayatri
Gaji Karyawan : 8000000.0

D:\Smt 3\Praktikum PBO\Modul 2>

Command Prompt

D:\Smt 3\Praktikum PBO\Modul 2>javac Mahasiswa.java
Mahasiswa.java:25: error: ')' expected
"N"
MahasiswaDemo.java - Notepad
File Edit Format View Help
"N"
public class MahasiswaDemo{
 public static void main (String[] args) {
 Mahasiswa mhs = new Mahasiswa();

 mhs.tampilkanNama("Arkan Deva Rajendra");
 mhs.tampilkanNim("L200180058");
 mhs.tampilkanAlamat("Surakarta");
 mhs.tampilkanSemester(3);
 mhs.printInfo();
 }
}
"S"
Mahasiswa.java:28: error: "S"
7 errors
Windows (CRLF) Ln 11, Col 2 100%

D:\Smt 3\Praktikum PBO\Modul 2>javac Mahasiswa.java
D:\Smt 3\Praktikum PBO\Modul 2>javac MahasiswaDemo.java
javac: file not found: MahasiswaDemo.java
Usage: javac <options> <source files>
use -help for a list of possible options
D:\Smt 3\Praktikum PBO\Modul 2>javac Mahasiswa.java
D:\Smt 3\Praktikum PBO\Modul 2>javac MahasiswaDemo.java
D:\Smt 3\Praktikum PBO\Modul 2>java MahasiswaDemo
Nama Mahasiswa : Arkan Deva Rajendra
NIM Mahasiswa : L200180058
Alamat Mahasiswa : Surakarta
Semester Mahasiswa : 3
D:\Smt 3\Praktikum PBO\Modul 2>

Mahasiswa.java - Notepad

File Edit Format View Help
public class Mahasiswa{
 String nama;
 String nim;
 String alamat;
 int semester;

 void tampilkanNama(String namaMahasiswa){
 nama = namaMahasiswa;
 }

 void tampilkanNim(String nimMahasiswa){
 nim = nimMahasiswa;
 }

 void tampilkanAlamat(String alamatMahasiswa){
 alamat = alamatMahasiswa;
 }

 void tampilkanSemester(int semesterMahasiswa){
 semester = semesterMahasiswa;
 }

 void printInfo(){
 System.out.println(
 "Nama Mahasiswa : " + nama + "\n" +
 "NIM Mahasiswa : " + nim + "\n" +
 "Alamat Mahasiswa : " + alamat + "\n" +
 "Semester Mahasiswa : " + semester + "\n");
 }
}

Windows (CRLF) Ln 27, Col 43 100%