

## Latihan Pembelajaran Pertemuan 7

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```
C:\Windows\System32\cmd.e
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C:\PBO-222310054-MAVEN>mvn -B archetype:generate -DgroupId=com.ibik.pbo.Pembelajaran -DartifactId=PBO-222310054-MAVEN -DarchetypeArtifactId=maven-archetype-quickstart -DarchetypeVersion=1.4
[INFO] Scanning for projects...
[INFO]
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO]
[INFO] >>> archetype:3.2.1:generate (default-cli) > generate-sources @ standalone-pom >>>
[INFO]
[INFO] <<< archetype:3.2.1:generate (default-cli) < generate-sources @ standalone-pom <<<
[INFO]
[INFO] --- archetype:3.2.1:generate (default-cli) @ standalone-pom ---
[INFO] Generating project in Batch mode
[INFO]
[INFO] Using following parameters for creating project from Archetype: maven-archetype-quickstart:1.4
[INFO]
[INFO] Parameter: groupId, Value: com.ibik.pbo.Pembelajaran
[INFO] Parameter: artifactId, Value: PBO-222310054-MAVEN
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: com.ibik.pbo.Pembelajaran
[INFO] Parameter: packageInPathFormat, Value: com/ibik/pbo/Pembelajaran
[INFO] Parameter: package, Value: com.ibik.pbo.Pembelajaran
[INFO] Parameter: groupId, Value: com.ibik.pbo.Pembelajaran
[INFO] Parameter: artifactId, Value: PBO-222310054-MAVEN
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Project created from Archetype in dir: C:\PBO-222310054-MAVEN\PBO-222310054-MAVEN
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 37.132 s
[INFO] Finished at: 2023-11-10T12:34:28+07:00
```

## 2. AppBukuTelp

```
eclipse-workspace - PBO-222310054-MAVEN/src/main/java/com/ibik/pbo/Pembelajaran/AppBukuTelp.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

package com.ibik.pbo.Pembelajaran;
import java.util.ArrayList;

public class AppBukuTelp {
    public static void main(String args[]) {
        ArrayList<ArrayList<String>> data = new ArrayList<ArrayList<String>>();
        JOptionPane box = new JOptionPane();
        String output = "";
        String repeat = box.showInputDialog(null, "Masukkan jumlah data.");
        int ulang = Integer.parseInt(repeat);

        for(int i = 0; i<ulang;i++) {
            data.add(new ArrayList<String>());
            box.showMessageDialog(null, "Data ke "+(i+1));
            String nama = box.showInputDialog(null, "Masukkan Nama Lengkap");
            data.get(i).add(0, nama);
            String alamat = box.showInputDialog(null, "Masukkan Alamat");
            data.get(i).add(1, alamat);
            String telp = box.showInputDialog(null, "Masukkan No Telepon");
            data.get(i).add(2, telp);
        }

        for (int i = 0; i<ulang;i++) {
            output = output + "\n\nData ke - "+(i+1)+
                "\n\nNama : "+data.get(i).get(0)+
                "\nAlamat : "+data.get(i).get(1)+
                "\nNo Telp : "+data.get(i).get(2);
        }
        box.showMessageDialog(null, "====Output Data===="+output);
    }
}
```

```

C:\PBO-222310054-MAVEN\PBO-222310054-MAVEN>mvn exec:java -Dexec.mainClass="com.ibik.pbo.Pembelajaran.AppBukuTelp"
[INFO] Scanning for projects...
[INFO] -----< com.ibik.pbo.Pembelajaran:PBO-222310054-MAVEN >-----
[INFO] Building PBO-222310054-MAVEN 1.0-SNAPSHOT
[INFO] from pom.xml
[INFO] -----[ jar ]-----
[INFO] --- exec:3.1.0:java (default-cli) @ PBO-222310054-MAVEN ---
[INFO] BUILD SUCCESS
[INFO] Total time: 06:19 min
[INFO] Finished at: 2023-11-10T16:03:59+07:00
[INFO] -----

```

Input

Masukkan jumlah data.

3

OK Cancel

Input

Masukkan Nama Lengkap

Septian Cahyadi

OK Cancel

Input

Masukkan Alamat

Drama cantik residence II, Bogor

OK Cancel

Input

Masukkan No Telepon

+62 899-9506-210

OK Cancel

Input

Masukkan Nama Lengkap

Isnain Mulia

OK Cancel

Input

Masukkan Alamat

Jl.Manunggal,Bogor

OK Cancel

Input

Masukkan No Telepon

+62 819-3208-0875

OK Cancel

Input

Masukkan Nama Lengkap

Edi Nurachmand

OK Cancel

Input

Masukkan Alamat

Taman Cimanggu Permai, Bogor

OK Cancel

Input

Masukkan No Telepon

+62 856-9380-0384

OK Cancel

Message

====Output Data=====

Data ke - 1

Nama : Septian Cahyadi  
Alamat : Drama cantik residence II, Bogor  
No Telp: +62 899-9506-210

Data ke - 2

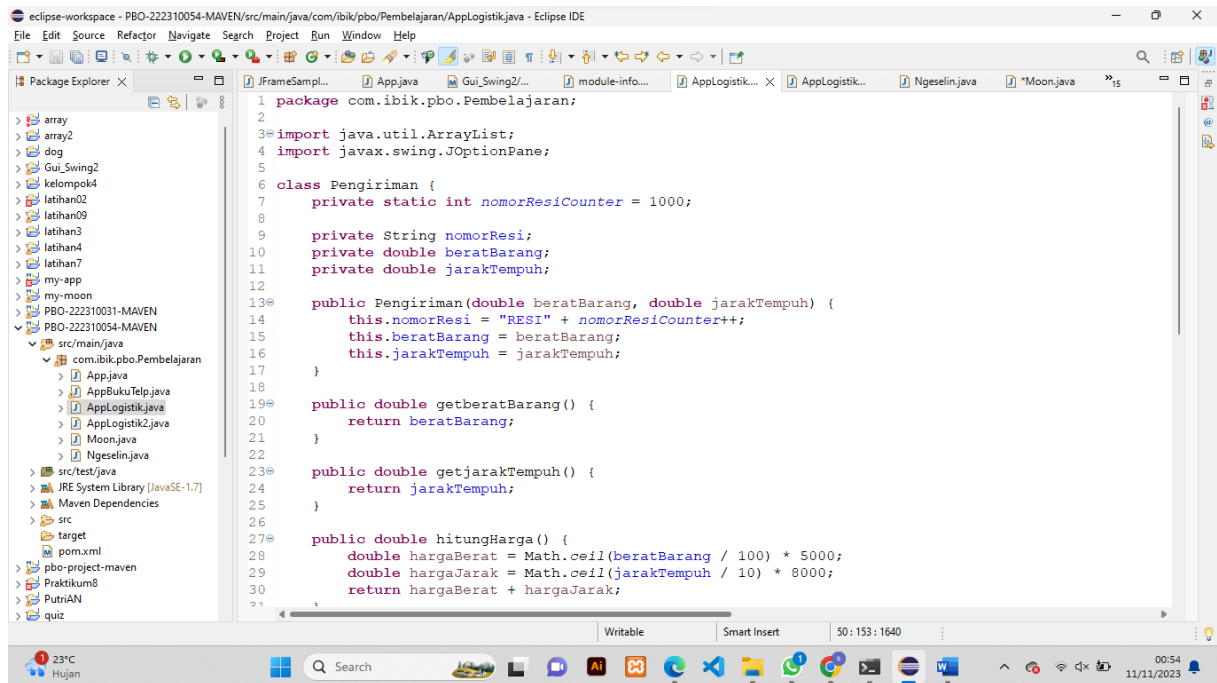
Nama : Isnain Mulia  
Alamat : Jl.Manunggal,Bogor  
No Telp: +62 819-3208-0875

Data ke - 3

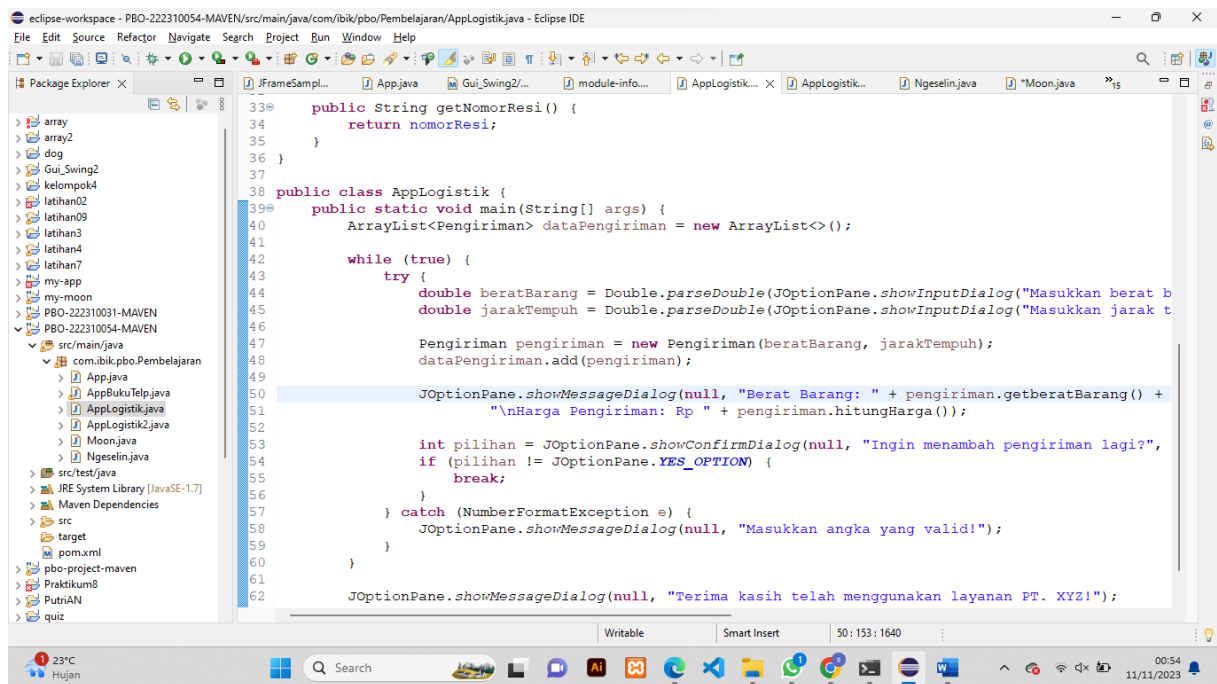
Nama : Edi Nurachmand  
Alamat : Taman Cimanggu Permai, Bogor  
No Telp: +62 856-9380-0384

OK

### 3. AppLogistik



```
1 package com.ibik.pbo.Pembelajaran;
2
3 import java.util.ArrayList;
4 import javax.swing.JOptionPane;
5
6 class Pengiriman {
7     private static int nomorResiCounter = 1000;
8
9     private String nomorResi;
10    private double beratBarang;
11    private double jarakTempuh;
12
13    public Pengiriman(double beratBarang, double jarakTempuh) {
14        this.nomorResi = "RESI" + nomorResiCounter++;
15        this.beratBarang = beratBarang;
16        this.jarakTempuh = jarakTempuh;
17    }
18
19    public double getberatBarang() {
20        return beratBarang;
21    }
22
23    public double getjarakTempuh() {
24        return jarakTempuh;
25    }
26
27    public double hitungHarga() {
28        double hargaBerat = Math.ceil(beratBarang / 100) * 5000;
29        double hargaJarak = Math.ceil(jarakTempuh / 10) * 8000;
30        return hargaBerat + hargaJarak;
31    }
32}
```



```
33    public String getNomorResi() {
34        return nomorResi;
35    }
36 }
37
38 public class AppLogistik {
39    public static void main(String[] args) {
40        ArrayList<Pengiriman> dataPengiriman = new ArrayList<>();
41
42        while (true) {
43            try {
44                double beratBarang = Double.parseDouble(JOptionPane.showInputDialog("Masukkan berat barang"));
45                double jarakTempuh = Double.parseDouble(JOptionPane.showInputDialog("Masukkan jarak tempuh"));
46
47                Pengiriman pengiriman = new Pengiriman(beratBarang, jarakTempuh);
48                dataPengiriman.add(pengiriman);
49
50                JOptionPane.showMessageDialog(null, "Berat Barang: " + pengiriman.getberatBarang() +
51                    "\nHarga Pengiriman: Rp " + pengiriman.hitungHarga());
52
53                int pilihan = JOptionPane.showConfirmDialog(null, "Ingin menambah pengiriman lagi?",
54                    "Pilih", JOptionPane.YES_NO_OPTION);
55                if (pilihan == JOptionPane.YES_OPTION) {
56                    continue;
57                }
58            } catch (NumberFormatException e) {
59                JOptionPane.showMessageDialog(null, "Masukkan angka yang valid!");
60            }
61        }
62
63        JOptionPane.showMessageDialog(null, "Terima kasih telah menggunakan layanan PT. XYZ!");
64    }
65}
```

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22621.2428]
(c) Microsoft Corporation. All rights reserved.

C:\PBO-222310054-MAVEN\PBO-222310054-MAVEN>mvn exec:java -Dexec.mainClass="com.ibik.pbo.Pembelajaran.AppLogistik"
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.ibik.pbo.Pembelajaran:PBO-222310054-MAVEN >-----
[INFO] Building PBO-222310054-MAVEN 1.0-SNAPSHOT
[INFO] from pom.xml
[INFO] -----[ jar ]-----
[INFO] --- exec:3.1.0:java (default-cli) @ PBO-222310054-MAVEN ---
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 02:15 min
[INFO] Finished at: 2023-11-10T14:07:25+07:00
[INFO]
```

Input

Masukkan berat barang (gram):

1000

OK Cancel

Input

Masukkan jarak tempuh (km):

25

OK Cancel

Message

Berat Barang: 1000.0  
Jarak Tempuh: 25.0  
Nomor Resi: RESI1000  
Harga Pengiriman: Rp 74000.0

OK

Konfirmasi

Ingin menambah pengiriman lagi?

Yes No

Input

Masukkan berat barang (gram):

2500

OK Cancel

Input

Masukkan jarak tempuh (km):

100

OK Cancel

Message

Berat Barang: 2500.0  
Jarak Tempuh: 100.0  
Nomor Resi: RESI1001  
Harga Pengiriman: Rp 205000.0

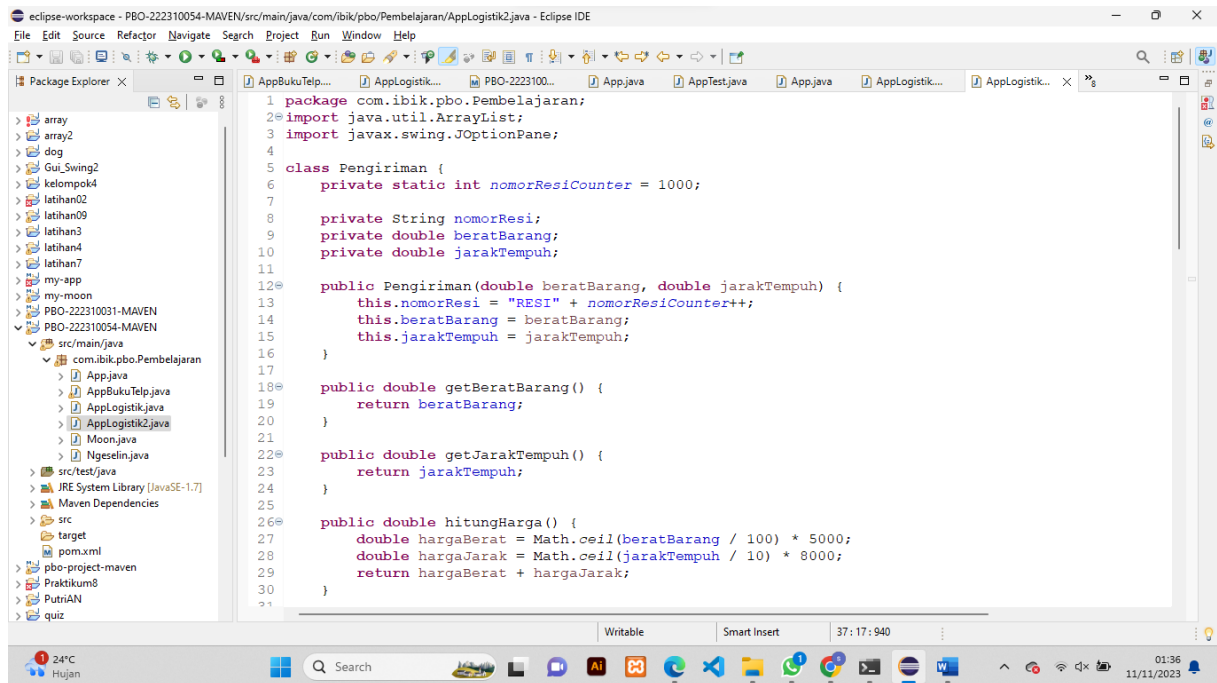
OK

Message

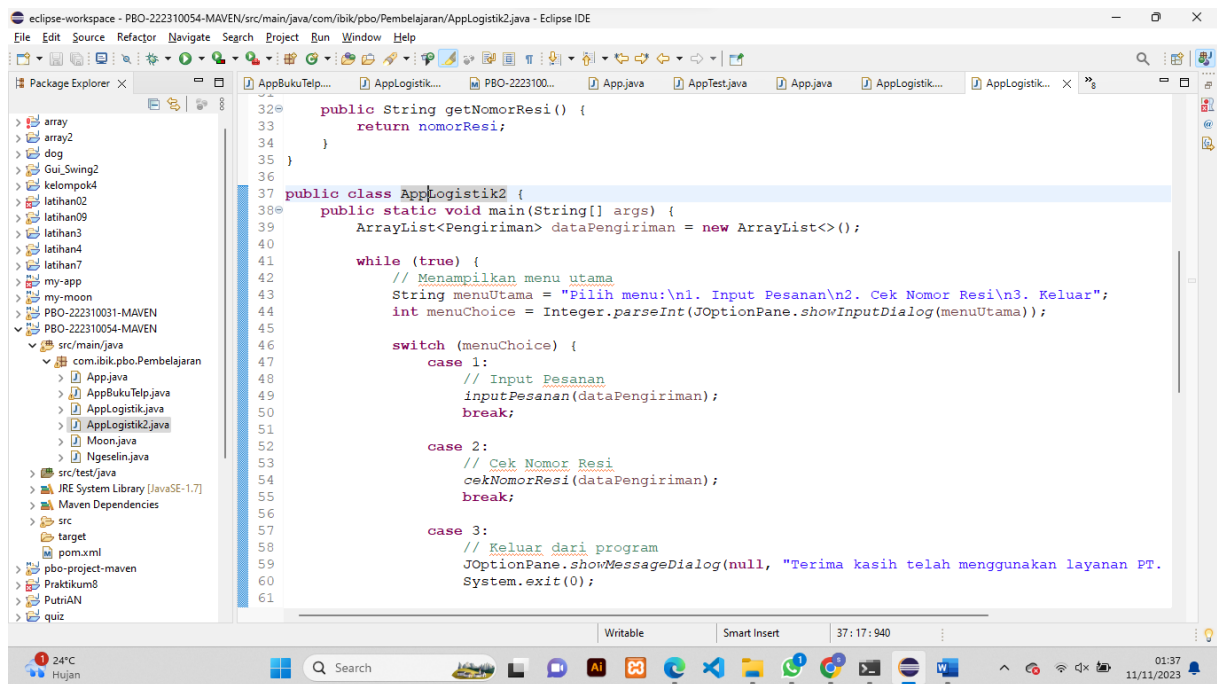
Terima kasih telah menggunakan layanan PT. XYZ!

OK

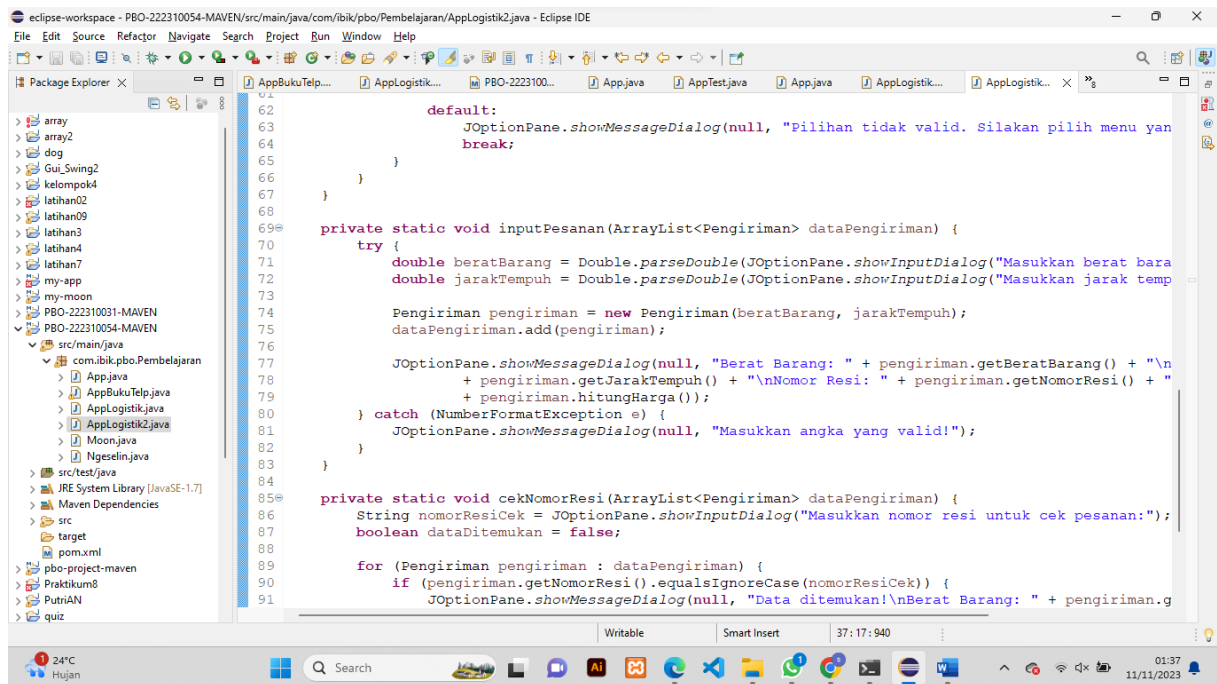
## 4. AppLogistik2



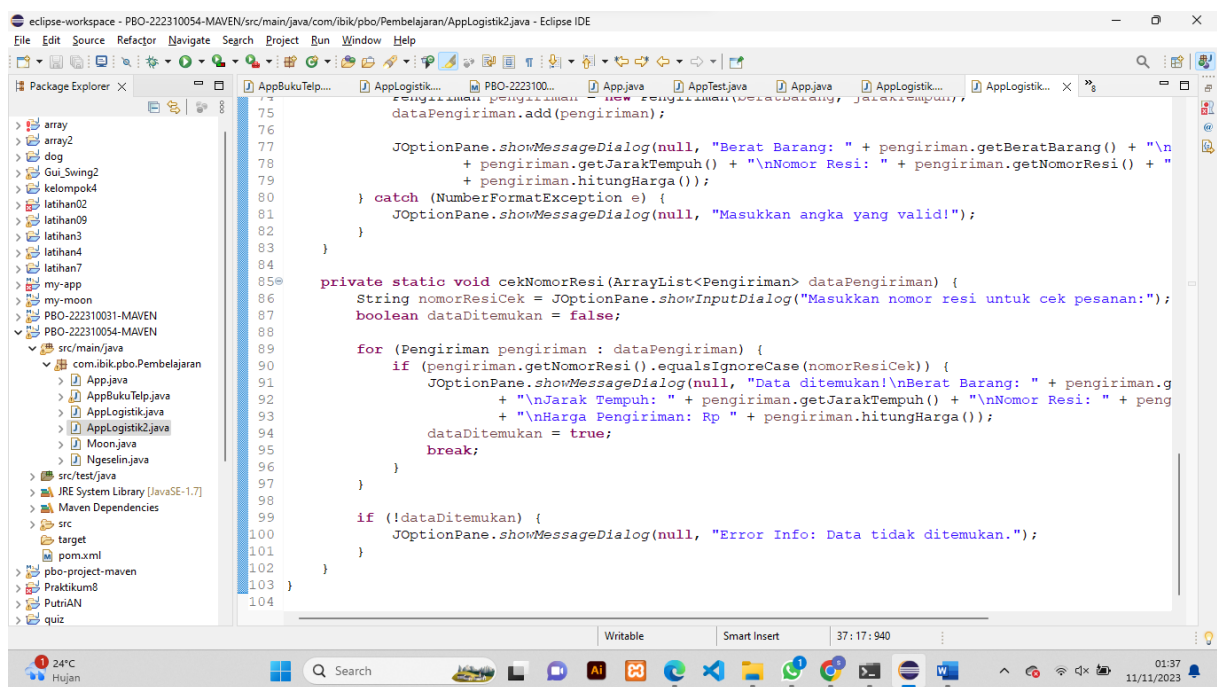
```
1 package com.ibik.pbo.Pembelajaran;
2 import java.util.ArrayList;
3 import javax.swing.JOptionPane;
4
5 class Pengiriman {
6     private static int nomorResiCounter = 1000;
7
8     private String nomorResi;
9     private double beratBarang;
10    private double jarakTempuh;
11
12    public Pengiriman(double beratBarang, double jarakTempuh) {
13        this.nomorResi = "RESI" + nomorResiCounter++;
14        this.beratBarang = beratBarang;
15        this.jarakTempuh = jarakTempuh;
16    }
17
18    public double getBeratBarang() {
19        return beratBarang;
20    }
21
22    public double getJarakTempuh() {
23        return jarakTempuh;
24    }
25
26    public double hitungHarga() {
27        double hargaBerat = Math.ceil(beratBarang / 100) * 5000;
28        double hargaJarak = Math.ceil(jarakTempuh / 10) * 8000;
29        return hargaBerat + hargaJarak;
30    }
31}
```



```
32    public String getNomorResi() {
33        return nomorResi;
34    }
35 }
36
37 public class AppLogistik2 {
38     public static void main(String[] args) {
39         ArrayList<Pengiriman> dataPengiriman = new ArrayList<>();
40
41         while (true) {
42             // Menampilkan menu utama
43             String menuUtama = "Pilih menu:\n1. Input Pesanan\n2. Cek Nomor Resi\n3. Keluar";
44             int menuChoice = Integer.parseInt(JOptionPane.showInputDialog(menuUtama));
45
46             switch (menuChoice) {
47                 case 1:
48                     // Input Pesanan
49                     inputPesanan(dataPengiriman);
50                     break;
51
52                 case 2:
53                     // Cek Nomor Resi
54                     cekNomorResi(dataPengiriman);
55                     break;
56
57                 case 3:
58                     // Keluar dari program
59                     JOptionPane.showMessageDialog(null, "Terima kasih telah menggunakan layanan PT.");
60                     System.exit(0);
61             }
62         }
63     }
64 }
```




```
62         default:
63             JOptionPane.showMessageDialog(null, "Pilihan tidak valid. Silakan pilih menu yang valid.");
64             break;
65     }
66 }
67
68 private static void inputPesanan(ArrayList<Pengiriman> dataPengiriman) {
69     try {
70         double beratBarang = Double.parseDouble(JOptionPane.showInputDialog("Masukkan berat barang"));
71         double jarakTempuh = Double.parseDouble(JOptionPane.showInputDialog("Masukkan jarak tempuh"));
72
73         Pengiriman pengiriman = new Pengiriman(beratBarang, jarakTempuh);
74         dataPengiriman.add(pengiriman);
75
76         JOptionPane.showMessageDialog(null, "Berat Barang: " + pengiriman.getBeratBarang() + "\n"
77             + pengiriman.getJarakTempuh() + "\nNomor Resi: " + pengiriman.getNomorResi() + "\n"
78             + pengiriman.hitungHarga());
79     } catch (NumberFormatException e) {
80         JOptionPane.showMessageDialog(null, "Masukkan angka yang valid!");
81     }
82 }
83
84 private static void cekNomorResi(ArrayList<Pengiriman> dataPengiriman) {
85     String nomorResiCek = JOptionPane.showInputDialog("Masukkan nomor resi untuk cek pesanan:");
86     boolean dataDitemukan = false;
87
88     for (Pengiriman pengiriman : dataPengiriman) {
89         if (pengiriman.getNomorResi().equalsIgnoreCase(nomorResiCek)) {
90             JOptionPane.showMessageDialog(null, "Data ditemukan!\nBerat Barang: " + pengiriman.getBeratBarang() + "\n"
91                 + pengiriman.getJarakTempuh() + "\nNomor Resi: " + pengiriman.getNomorResi() + "\n"
92                 + pengiriman.hitungHarga());
93             dataDitemukan = true;
94             break;
95         }
96     }
97
98     if (!dataDitemukan) {
99         JOptionPane.showMessageDialog(null, "Error Info: Data tidak ditemukan.");
100     }
101 }
102
103 }
104 }
```



```
75     pengiriman = new Pengiriman(beratBarang, jarakTempuh);
76     dataPengiriman.add(pengiriman);
77
78     JOptionPane.showMessageDialog(null, "Berat Barang: " + pengiriman.getBeratBarang() + "\n"
79         + pengiriman.getJarakTempuh() + "\nNomor Resi: " + pengiriman.getNomorResi() + "\n"
80         + pengiriman.hitungHarga());
81 } catch (NumberFormatException e) {
82     JOptionPane.showMessageDialog(null, "Masukkan angka yang valid!");
83 }
84
85 private static void cekNomorResi(ArrayList<Pengiriman> dataPengiriman) {
86     String nomorResiCek = JOptionPane.showInputDialog("Masukkan nomor resi untuk cek pesanan:");
87     boolean dataDitemukan = false;
88
89     for (Pengiriman pengiriman : dataPengiriman) {
90         if (pengiriman.getNomorResi().equalsIgnoreCase(nomorResiCek)) {
91             JOptionPane.showMessageDialog(null, "Data ditemukan!\nBerat Barang: " + pengiriman.getBeratBarang() + "\n"
92                 + pengiriman.getJarakTempuh() + "\nNomor Resi: " + pengiriman.getNomorResi() + "\n"
93                 + pengiriman.hitungHarga());
94             dataDitemukan = true;
95             break;
96         }
97     }
98
99     if (!dataDitemukan) {
100         JOptionPane.showMessageDialog(null, "Error Info: Data tidak ditemukan.");
101     }
102 }
103
104 }
```


```
C:\PBO-222310054-MAVEN\PBO-222310054-MAVEN>mvn exec:java -Dexec.mainClass="com.ibik.pbo.Pembelajaran.AppLogistik2"
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.ibik.pbo.Pembelajaran:PBO-222310054-MAVEN >-----
[INFO] Building PBO-222310054-MAVEN 1.0-SNAPSHOT
[INFO] from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- exec:3.1.0:java (default-cli) @ PBO-222310054-MAVEN ---
```

Input


 Pilih menu:

1. Input Pesanan
2. Cek Nomor Resi
3. Keluar


Input

 Masukkan berat barang (gram):


Message

 Masukkan angka yang valid!

Input

 Masukkan berat barang (gram):


Input

 Masukkan jarak tempuh (km):

Message


 Berat Barang: 1000.0  
Jarak Tempuh: 5.0  
Nomor Resi: RESI1000  
Harga Pengiriman: Rp 58000.0

Input

 Pilih menu:

1. Input Pesanan
2. Cek Nomor Resi
3. Keluar


Input

 Masukkan nomor resi untuk cek pesanan:

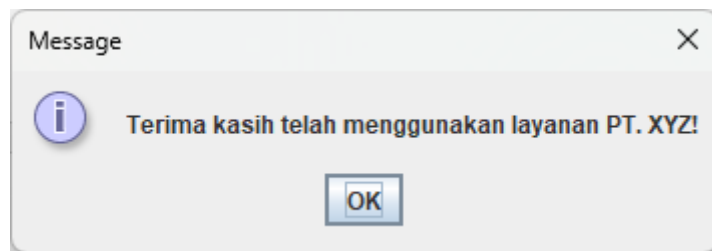
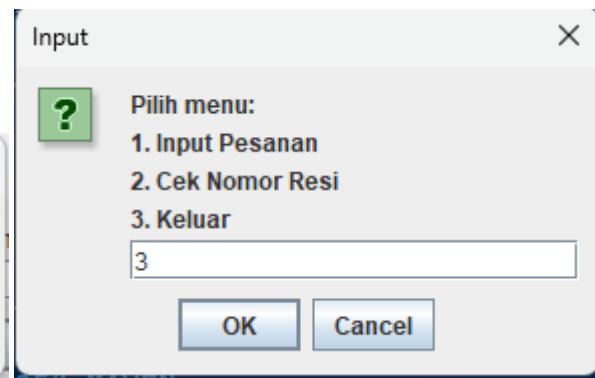
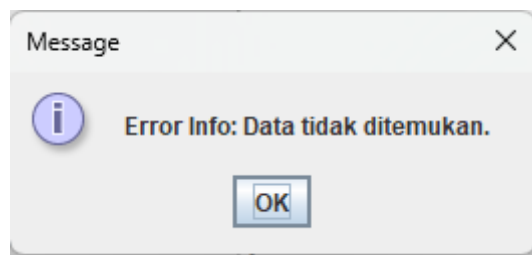
Message

 Data ditemukan!  
Berat Barang: 1000.0  
Jarak Tempuh: 5.0  
Nomor Resi: RESI1000  
Harga Pengiriman: Rp 58000.0

Input

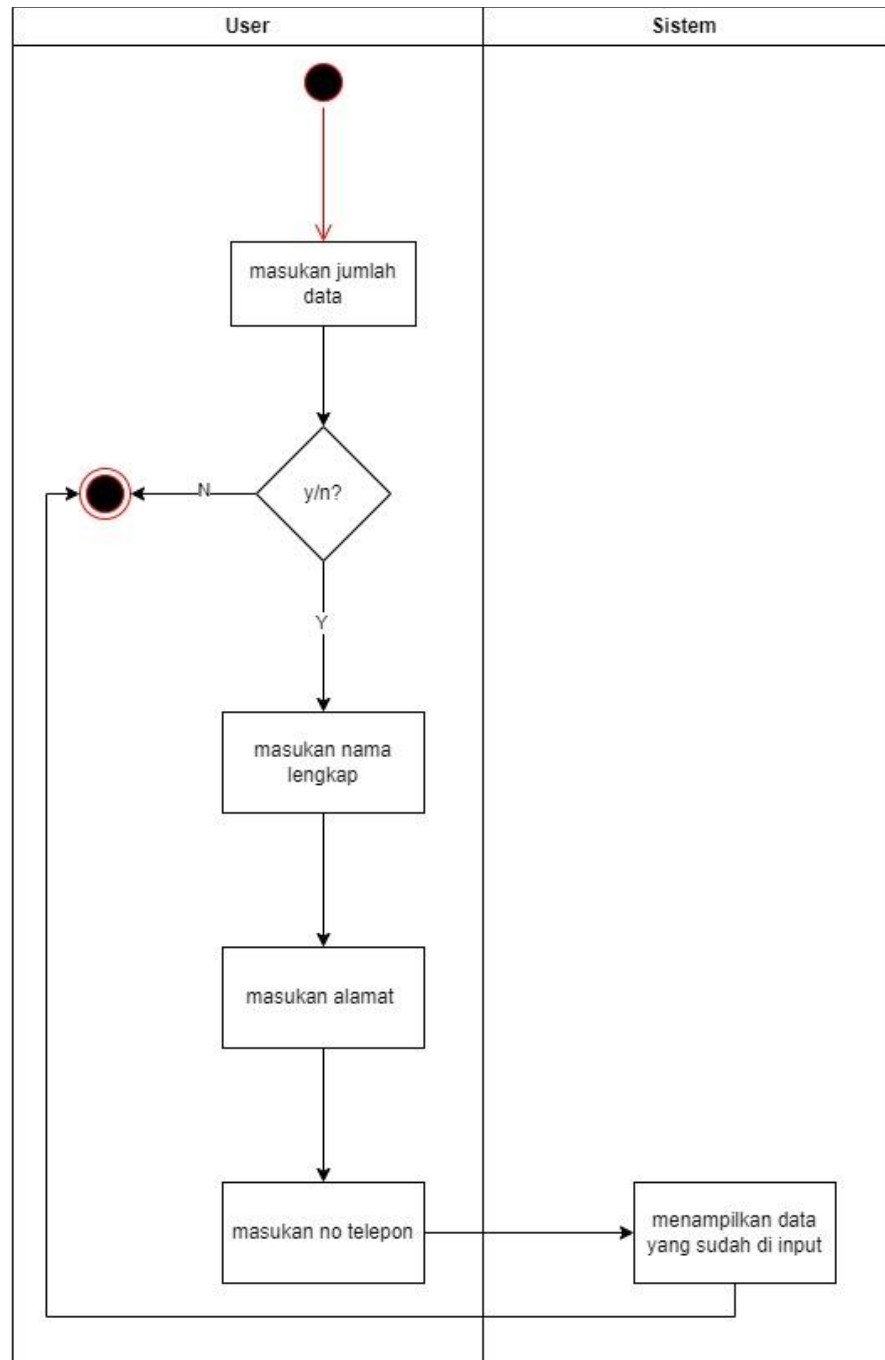
 Masukkan nomor resi untuk cek pesanan:





## 5. Class Diagram dan Activity Diagram

NO 2



NO 4

