

Tugas PBO 6

Michael Fernandez, 212310060

TI-21-PA

1. AppBukuTelp

```
package com.ibik.pbo.praktikum;
import javax.swing.JOptionPane;

public class AppBukuTelp {

    public static void main(String[] args) {
        String[] fields = {"Nama Lengkap", "Alamat", "No Telp"};
        String[][] data = new String[3][3];
        final int sizeFields = fields.length;

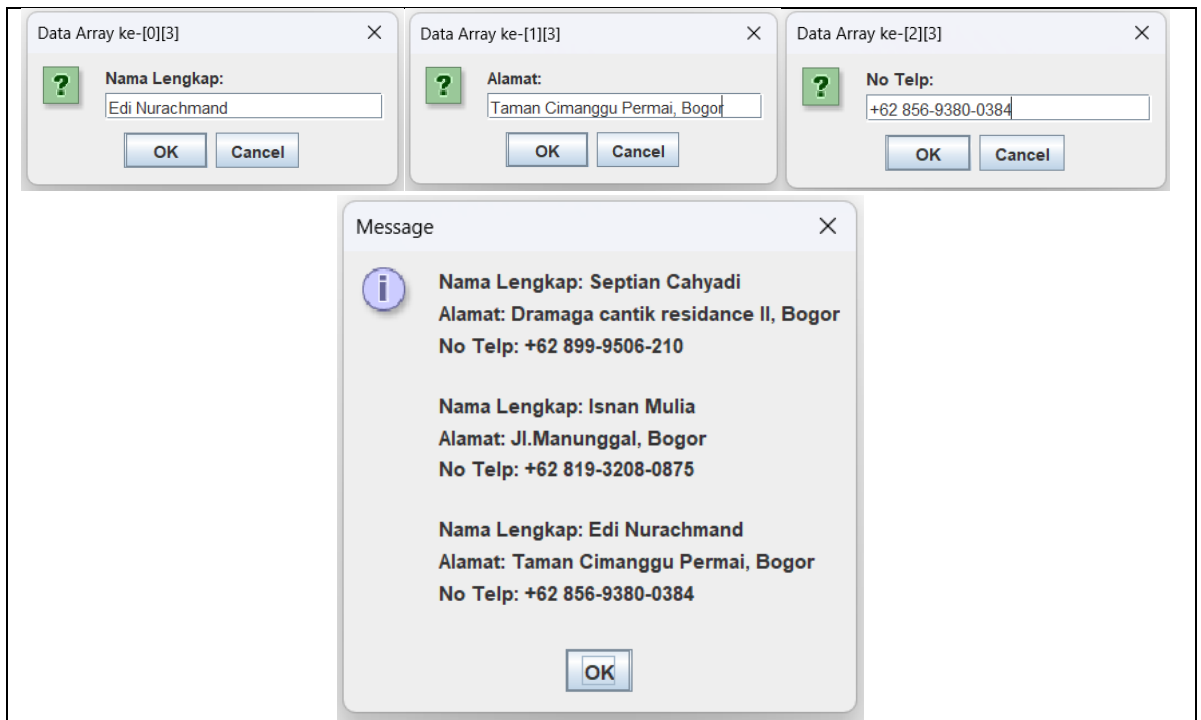
        for(int i = 0; i < sizeFields; i++) {
            for(int j = 0; j < sizeFields; j++) {
                String values = JOptionPane.showInputDialog(null,
                    "Masukkan " + fields[j] + ":",
                    "Data array[" + i + "][" + j + "]",
                    JOptionPane.INFORMATION_MESSAGE);
                data[i][j] = values;
            }
        }

        String output = "";

        for(int x = 0; x < sizeFields; x++) {
            for(int y = 0; y < sizeFields; y++) {
                String[] fieldsOutput = {"Nama Lengkap", "Alamat", "No
Telp"};
                output += fieldsOutput[y] + ": " + data[x][y] + "\n";
            }
            output += "\n";
        }

        JOptionPane.showMessageDialog(null, output, "Output Data",
JOptionPane.INFORMATION_MESSAGE);
    }
}
```

Dialog Title	Field Label	Value Entered
Data Array ke-[0][1]	Nama Lengkap:	Septian Cahyadi
Data Array ke-[1][1]	Alamat:	Dramaga cantik residence II, Bogor
Data Array ke-[2][1]	No Telp:	+62 899-9506-210
Data Array ke-[0][2]	Nama Lengkap:	Isnain Mulia
Data Array ke-[1][2]	Alamat:	Jl.Manunggal, Bogor
Data Array ke-[2][2]	No Telp:	+62 819-3208-0875



2. AppLogistik

```
package com.ibik.pbo.praktikum;
import java.util.ArrayList;
import javax.swing.JOptionPane;
import java.lang.Math;
public class AppLogistik{
    public static ArrayList<String> orders = new
    ArrayList<String>();
    public static JOptionPane jop;
    public static boolean isExit = false;

    public static void main(String[] args){
        AppLogistik main = new AppLogistik();
        jop = new JOptionPane();
        String[] menus = {"Input order", "Tracking Order"};
        String labels = "pilih menu dibawah ini:\n";

        for (int i = 0; i < menus.length; i++){
            labels += (i+1) + ". " + menus[i] + "\n";
        }
        while(!isExit){
            String menuSelected = jop.showInputDialog(null, labels,
            "Aplikasi PT.XYZ", jop.INFORMATION_MESSAGE);
            if(menuSelected!= null) {
                switch (Integer.parseInt(menuSelected)) {
                    case 1:
                        main.InputOrder();
                        break;
                    case 2:
                        main.TrackingOrder();
                        break;
                    default:
                        main.ExitApps("Menu tidak ditemukan");
                        break;
                }
            }
        }
    }
}
```

```

        }else{
            main.ExitApps("");
        }
    }while(!isExit);
}

public void InputOrder(){
    JOptionPane jop = new JOptionPane();

    ArrayList<Integer> pengiriman = new
ArrayList<Integer>();

    int berat =
Integer.parseInt(jop.showInputDialog(null,"Masukkan Berat"));
    int jarak =
Integer.parseInt(jop.showInputDialog(null,"Masukkan Jarak"));

    int total_harga = harga_Pengiriman(berat, jarak);

    jop.showMessageDialog(null,"Berat paket = " + berat +
"(gr)"+ "\nJarak lokasi = " + jarak + "(km)"+ "\nTotal Harga = " +
total_harga + "\nNomor Resi = XYZ002");

    pengiriman.add(123);
    pengiriman.add(total_harga);

    int resi =
Integer.parseInt(jop.showInputDialog(null,"Masukkan Resi","Lacak
Resi",jop.QUESTION_MESSAGE));

    if(resi == pengiriman.get(0)) {
        jop.showMessageDialog(null, "Berat paket = " +
berat + "(gr)" + "\nNo Resi = " + pengiriman.get(1) + "\nTotal
Harga = " + pengiriman.get(2));
    }
}

static int harga_Pengiriman(int paramBerat,int paramJarak) {
    int harga_Berat,harga_Jarak;

    if (paramBerat < 100) {
        harga_Berat = 5000;
    }else {
        harga_Berat = (paramBerat / 100) * 5000;
    }

    if (paramJarak < 10) {
        harga_Jarak = 8000;
    }else {
        harga_Jarak = (paramJarak / 10) * 8000;
    }

    return harga_Berat + harga_Jarak;
}

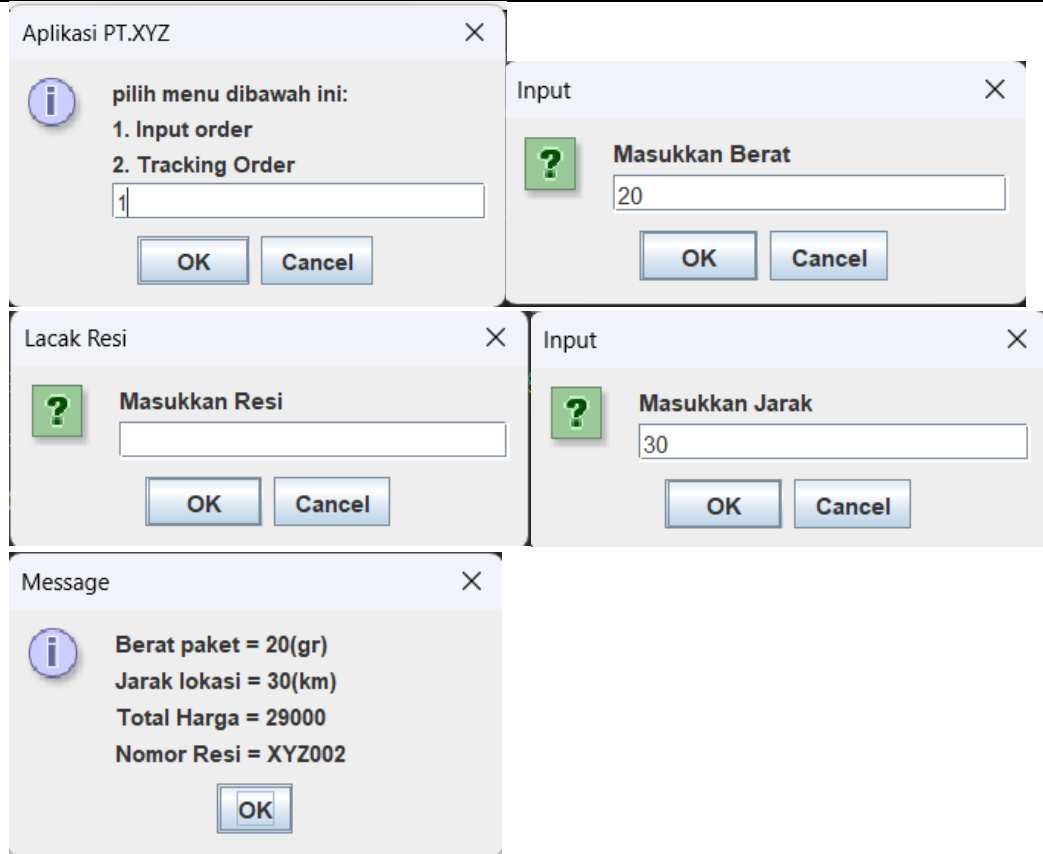
public void TrackingOrder(){
    jop = new JOptionPane();
    String resi = jop.showInputDialog(null,"Masukkan
Resi","Lacak Resi",jop.QUESTION_MESSAGE);

```

```

        //int resi =
        Integer.parseInt(jop.showInputDialog(null, "Masukkan Resi", "Lacak
        Resi", jop.QUESTION_MESSAGE));
        ExitApps("Data tidak ditemukan.\n");
    }
    void ExitApps(String string) {
        // TODO Auto-generated method stub
    }
}

```



3. AppLogistikTervalidasi

```

package com.ibik.pbo.praktikum;
import javax.swing.JOptionPane;
import java.util.ArrayList;

public class AppLogistikTervalidasi {
    public static ArrayList<String> pesanan = new
    ArrayList<String>();
    public static AppLogistikTervalidasi mainApps = new
    AppLogistikTervalidasi();
    public static final String regex_angka = "[0-9]+";
    public static boolean is_exit = false;

    public static void main(String[] args) {
        String[] menus = {"Input Pesanan", "Lacak Pesanan"};
        String teks_menu = "Pilih menu di bawah ini:\n";

        for(int i = 0; i < menus.length; i++) {
            teks_menu += (i + 1) + ". " + menus[i] + "\n";
        }
    }
}

```

```

        while(!is_exit) {
            String pilihan_menu = JOptionPane.showInputDialog(null,
teks_menus, "Aplikasi PT. XYZ", JOptionPane.QUESTION_MESSAGE);

            if((pilihan_menu != null) &&
(pilihan_menu.matches(regex_angka))) {
                switch(Integer.parseInt(pilihan_menu)) {
                    case 1:
                        mainApps.InputPesanan();
                        break;

                    case 2:
                        mainApps.LacakPesanan();
                        break;

                    default:
                        JOptionPane.showMessageDialog(null, "Menu
tidak ada!", "PERINGATAN", JOptionPane.ERROR_MESSAGE);
                }
            } else if((pilihan_menu != null) &&
(!pilihan_menu.matches(regex_angka))) {
                JOptionPane.showMessageDialog(null, "Inputan harus
angka!", "PERINGATAN", JOptionPane.ERROR_MESSAGE);
            } else {
                mainApps.ExitApps("");
            }
        }
    }

    private void InputPesanan() {
        final String[] title_pesanan = {"Berat Barang (gr)", "Jarak
Barang (km)"};
        boolean is_exit_input_pesanan = false;
        int i = 0;

        while(!is_exit_input_pesanan) {
            while(i < title_pesanan.length) {
                String values = JOptionPane.showInputDialog(null,
                    "Masukkan " + title_pesanan[i] +
                    ":",
                    "Input " + title_pesanan[i],
                    JOptionPane.INFORMATION_MESSAGE);

                if((values != null) &&
(values.matches(regex_angka))) {
                    pesanan.add(values);
                    i++;
                    if(i == 2) { mainApps.CetakResi(); }
                } else if((values != null) &&
(!values.matches(regex_angka))) {
                    JOptionPane.showMessageDialog(null, "Inputan
harus angka!", "PERINGATAN", JOptionPane.ERROR_MESSAGE);
                    i = 0;
                } else {
                    int pilihan =
JOptionPane.showConfirmDialog(null,
                        "Apakah Anda ingin keluar ke menu
utama?",
                        "Konfirmasi",
                        JOptionPane.YES_NO_OPTION,

```

```

JOptionPane.WARNING_MESSAGE);

        if(pilihan == JOptionPane.YES_OPTION) {
            i = 2;
            is_exit_input_pesanan = true;
        } else {
            is_exit_input_pesanan = false;
            i = 0;
        }
    }

    }
    is_exit_input_pesanan = true;
}

private void LacakPesanan() {
    boolean is_exit_lacak_pesanan = false;
    int i = 0;

    if(pesanan.size() > i) {
        while(!is_exit_lacak_pesanan) {
            String input_resi =
JOptionPane.showInputDialog(null, "Masukkan nomor resi");

            if((input_resi != null) &&
(input_resi.equals(pesanan.get(3)))) {
                mainApps.CetakResi();
                is_exit_lacak_pesanan = true;
            } else if((input_resi != null) &&
(!input_resi.equals(pesanan.get(3)))) {
                JOptionPane.showMessageDialog(null, "Nomor Resi
tidak terdaftar!", "PERINGATAN", JOptionPane.ERROR_MESSAGE);
                i = 0;
            } else {
                int pilihan =
JOptionPane.showConfirmDialog(null,
utama?",
                                "Konfirmasi",
                                JOptionPane.YES_NO_OPTION,
                                JOptionPane.WARNING_MESSAGE);

                if(pilihan == JOptionPane.YES_OPTION) {
                    is_exit_lacak_pesanan = true;
                    i = 4;
                } else {
                    is_exit_lacak_pesanan = false;
                    i = 0;
                }
            }
        }
    }
    } else {
        JOptionPane.showMessageDialog(null, "Data masih
kosong!", "PERINGATAN", JOptionPane.ERROR_MESSAGE);
    }
}

```

```

private void CetakResi() {
    int berat_barang = Integer.parseInt(pesanan.get(0));
    int jarak_barang = Integer.parseInt(pesanan.get(1));

    long total_bayar = KalkulasiPembayaran(berat_barang,
    jarak_barang);
    String nomor_resi = "XYZ001";

    pesanan.add(2, ""+total_bayar);
    pesanan.add(3, nomor_resi);

    String list_data = "Berat Barang = " + berat_barang +
    "gr\n"
                        + "Jarak Tempuh = " + jarak_barang +
    "km\n"
                        + "Total Bayar = Rp " + total_bayar +
    "\n"
                        + "Nomor Resi = " + nomor_resi;

    JOptionPane.showMessageDialog(null, list_data);
}

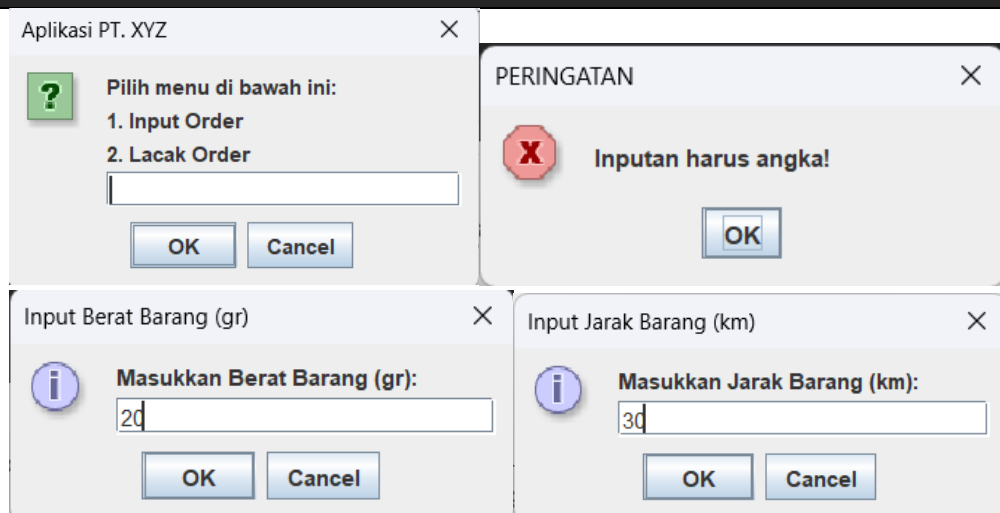
private long KalkulasiPembayaran(int berat, int jarak) {
    long harga_barang = 5000;
    long harga_jarak = 8000;

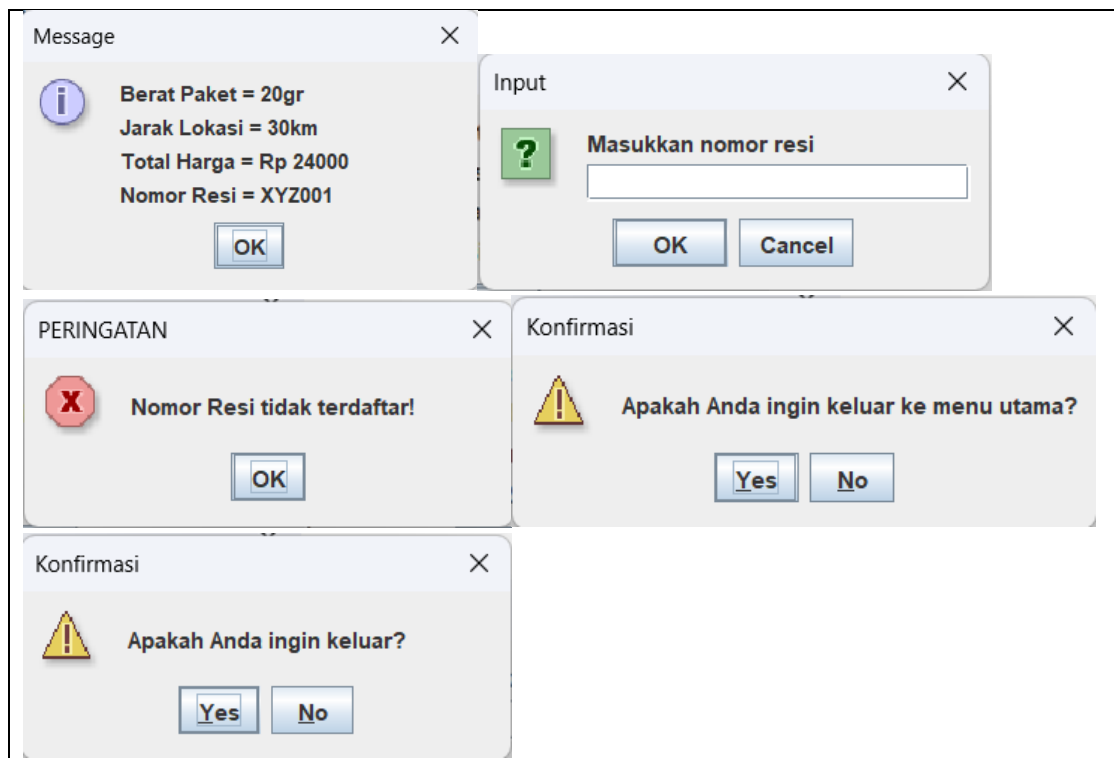
    long total_harga_barang = berat / 100 * harga_barang;
    long total_harga_jarak = jarak / 10 * harga_jarak;
    long total_harga = total_harga_barang + total_harga_jarak;

    return total_harga;
}

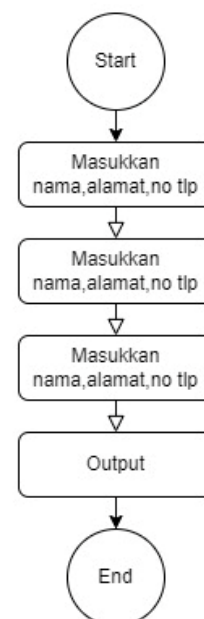
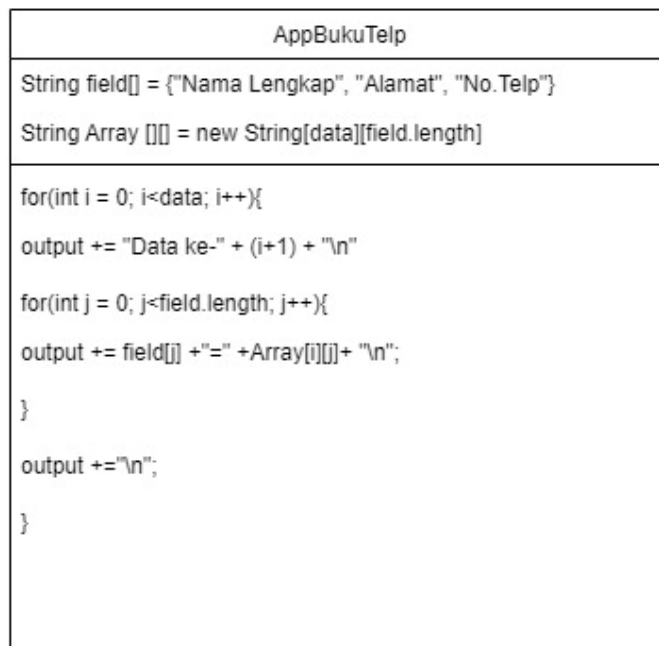
private void ExitApps(String values) {
    int pilihan = JOptionPane.showConfirmDialog(null,
    values + "Apakah Anda ingin keluar?",
    "Konfirmasi",
    JOptionPane.YES_NO_OPTION,
    JOptionPane.WARNING_MESSAGE);
    is_exit = (pilihan == JOptionPane.YES_OPTION) ? true :
false;
}
}

```

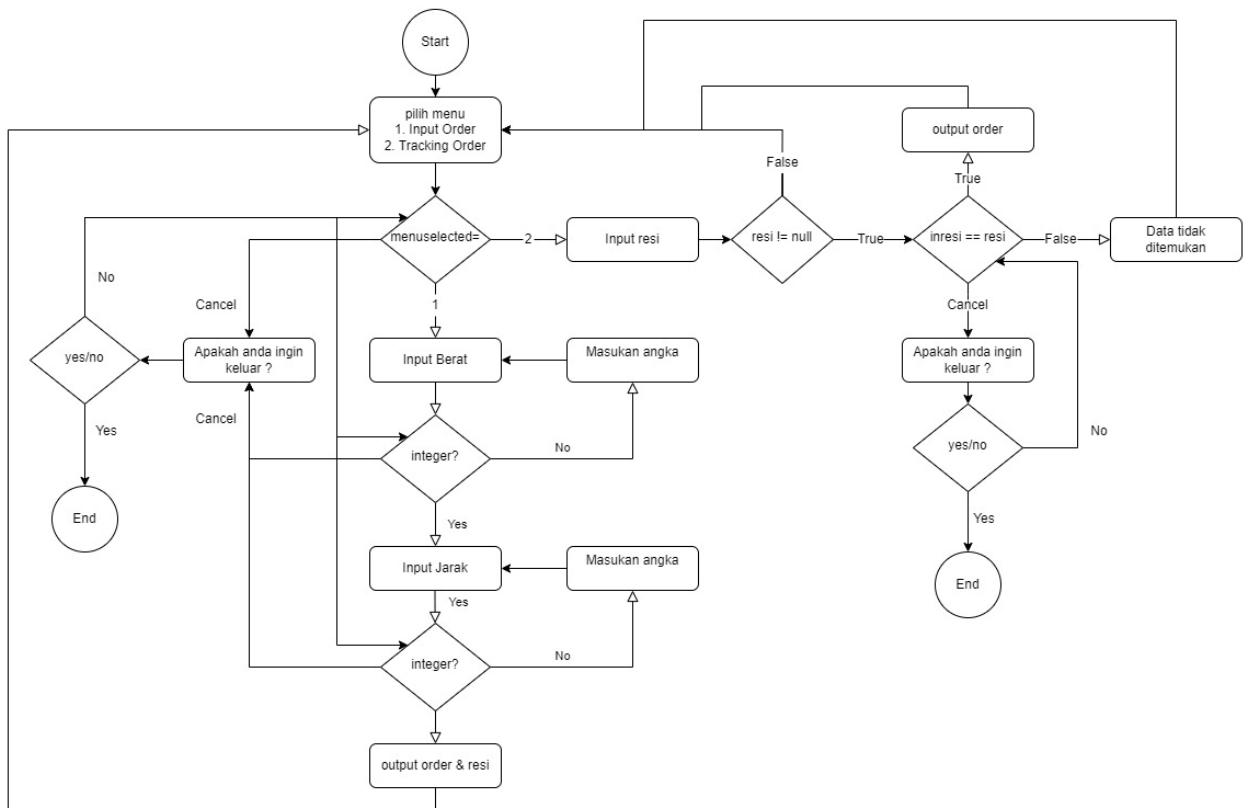




4. Class diagram & activity diagram dari BukuAppTelp:



Class diagram & activity diagram dari AppLogistikTervalidasi:



AppLogistikTervalidasi
String[] menus
String labels
String menuSelected
String[] field
String resi
String values
main()
InputOrder()
TrackingOrder()
CetakResi()
CalculatePayment()
ExitApps