

Nama : Marlina Yunus
Nim : 2109106143
Kelas : Informatika C2 2021

SCREENSHOT TUGAS POSTTEST II PBO

➤ jual.java

```
package pboposttest2;

public class jual {
    private String nama;
    private String pembeli;
    private int harga;

    //setter
    public void setName(String nama) {
        this.nama = nama;
    }

    public void setPembeli(String pembeli) {
        this.pembeli = pembeli;
    }

    public void setHarga(int harga) {
        this.harga = harga;
    }

    //getter
    public String getName() {
        return nama;
    }

    public String getPembeli() {
        return pembeli;
    }
}
```

```
    public void setHarga(int harga) {
        this.harga = harga;
    }

    //getter
    public String getName() {
        return nama;
    }

    public String getPembeli() {
        return pembeli;
    }

    public int getHarga() {
        return harga;
    }
}
```

➤ Pboposttest2.java

```
//package : cara untuk mengelompokkan class
package pboposttest2;

import java.io.File;
import java.io.FileNotFoundException;
import java.io.FileWriter;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Scanner;

//public : pengaksesan suatu variabel instan diluar class
public class Pboposttest2 {

    static String fileName;
    static ArrayList<String> todoLists;
    static boolean isEditing = false;
    static Scanner input;

    //static : sebuah property atau method diakses langsung tanpa object
    public static void main(String[] args) {
    }
```

```
//ToDo Code
// inisialisasi
do {
    todoLists = new ArrayList<>();
    input = new Scanner(System.in);
} while (isEditing);
String filePath = System.console() == null ? "/src/crud.txt" : "/crud.txt";
fileName = System.getProperty("user.dir") + filePath;

System.out.println("FILE: " + fileName);

// run the program (main loop)
while (true) {
    showMenu();
}
}
```

```
static void clearScreen(){
    try {
        final String os = System.getProperty("os.name");
        if (os.contains("Windows")) {
            // clear screen untuk windows
            new ProcessBuilder("cmd", "/c", "cls")
                .inheritIO()
                .start()
                .waitFor();
        } else {
            // clear screen untuk Linux, Unix, Mac
            Runtime.getRuntime().exec("clear");
            System.out.print("\033[H\033[2J");
            System.out.flush();
        }
    } catch (final IOException | InterruptedException e) {
        System.out.println("Error karena: " + e.getMessage());
    }
}
```

```
static void showMenu() {
    //showMenu()
    System.out.println("");
    System.out.println("+++++");
    System.out.println("          Sistem Penjualan Boneka Lucu Toko Kawaii' Doll House          ");
    System.out.println("+++++");
    System.out.println("");
    System.out.println("(1) Tambah Boneka    ");
    System.out.println("(2) Lihat Boneka    ");
    System.out.println("(3) Edit Boneka     ");
    System.out.println("(4) Hapus Boneka    ");
    System.out.println("(5) Exit            ");
    System.out.println("");

    System.out.print("Pilih Menu : ");

    String selectedMenu = input.nextLine();
}
```

```

switch (selectedMenu) {
    case "1":
        //Create
        System.out.println("Selamat Datang di Toko Boneka Lucu Ini!");
        addToDoList();
        break;
    case "2":
        //Read
        System.out.println("Selamat Datang di Toko Boneka Lucu Ini!");
        showToDoList();
        break;
    case "3":
        //Update
        System.out.println("Selamat Datang di Toko Boneka Lucu Ini!");
        System.out.println("Indeks diUpdate : ");
        editToDoList();
        break;
    case "4":
        //Delete
        System.out.println("Selamat Datang di Toko Boneka Lucu Ini!");
        System.out.println("Indeks diHapus : ");
        deleteToDoList();
        break;
    case "5":
        //Exit
        System.out.println("Terima Kasih! Silahkan Datang Lagi!");
        System.exit(5);

```

```

        default:
            System.out.println("Oops! Salah Pilih Menu!");
            backToMenu();
            break;
    }
}

static void backToMenu() {
    System.out.println("");
    System.out.print("Silahkan Tekan 'Enter' untuk Kembali!");
    input.nextLine();
    clearScreen();
}

```

```

static void readToDoList() {
    try {
        File file = new File(fileName);
        Scanner fileReader = new Scanner(file);

```

```

static void readToDoList() {
    try {
        File file = new File(fileName);
        Scanner fileReader = new Scanner(file);

        // load isi file ke dalam array todoLists
        todoLists.clear();
        while (fileReader.hasNextLine()) {
            String data = fileReader.nextLine();
            todoLists.add(data);
        }
    } catch (FileNotFoundException e) {
        System.out.println("Error karena: " + e.getMessage());
    }
}

```

```

static void showTodoList() {
    clearScreen();
    readTodoList();
    if (todoLists.size() > 0) {
        System.out.println("");
        System.out.println("Boneka yang Ditambahkan : ");
        int index = 0;
        for (String data : todoLists) {
            System.out.println(String.format("(%d) %s", index, data));
            index++;
        }
    } else {
        System.out.println("Sorry! No Data Here");
    }

    if (!isEditing) {
        backToMenu();
    }
}

```

```

static void addTodoList() {
    clearScreen();
    System.out.println(" ");
    System.out.println("Nama Boneka Impian Apa?");
    System.out.print("Jawab : ");
    String newTodoList = input.nextLine();

    try {
        try ( // tulis file
            FileWriter fileWriter = new FileWriter(fileName, true)) {
            fileWriter.append(String.format("%s\n", newTodoList));
        }
        System.out.println(" ");
        System.out.println(" ----- ");
        System.out.println("          Berhasil Ditambahkan!          ");
        System.out.println(" ----- ");
    } catch (IOException e) {
        System.out.println("Oops! Kenali Error : " + e.getMessage());
    }
    backToMenu();
}

```

```

static void editTodoList() {
    isEditing = true;
    showTodoList();

    try {
        System.out.println(" ");
        System.out.print("Pilih Indeks : ");
        int index = Integer.parseInt(input.nextLine());

        if (index > todoLists.size()) {
            throw new IndexOutOfBoundsException("Data Kamu Salah!");
        } else {
            System.out.println("Nama Boneka Baru : ");
            String newData = input.nextLine();

            // update data
            String set = todoLists.set(index, newData);
            System.out.println(todoLists.toString());

            try {
                // write new data
                try (FileWriter fileWriter = new FileWriter(fileName, false)) {
                    // write new data
                    for (String data : todoLists) {
                        fileWriter.append(String.format("%s\n", data));
                    }
                }
            }
        }
    }
}

```

```

        System.out.println("");
        System.out.println(" ----- ");
        System.out.println("          Berhasil Diubahkan! ");
        System.out.println(" ----- ");
    } catch (IOException e) {
        System.out.println("Oops! Know the Error : " + e.getMessage());
    }
}
} catch (IndexOutOfBoundsException | NumberFormatException e) {
    System.out.println(e.getMessage());
}

isEditing = false;
backToMenu();
}

```

```

static void deleteTodoList() {
    isEditing = true;
    showTodoList();

    System.out.println(" ");
    System.out.println("Pilih Indeks : ");
    int index = Integer.parseInt(input.nextLine());

    try {
        if (index > todoLists.size()) {
            throw new IndexOutOfBoundsException("Kamu memasukan data yang salah!");
        } else {
            System.out.println("");
            System.out.println("Indeks yang Kamu Hapus Adalah Indeks : ");
            System.out.println(String.format("(%d) %s", index, todoLists.get(index)));
            System.out.println("");
            System.out.println("Adakah Kamu Yakin Hapus?");
            System.out.print("Jawab (Y/T) : ");
            String jawab = input.nextLine();

            if (jawab.equalsIgnoreCase("Y")) {
                // hapus data
                String remove = todoLists.remove(index);
            }
        }
    }
}

```

```

// tulis ulang file
try {
    // write new data
    try (FileWriter fileWriter = new FileWriter(fileName, false)) {
        // write new data
        for (String data : todoLists) {
            fileWriter.append(String.format("%s\n", data));
        }
    }
}

```

```

        System.out.println("");
        System.out.println(" ----- ");
        System.out.println("          Berhasil Dihapus! ");
        System.out.println(" ----- ");
    } catch (IOException e) {
        System.out.println("Oops! Know the Error : " + e.getMessage());
    }
}
} catch (IndexOutOfBoundsException e) {
    System.out.println(e.getMessage());
}

//back
isEditing = false;
backToMenu();
}
}

```