

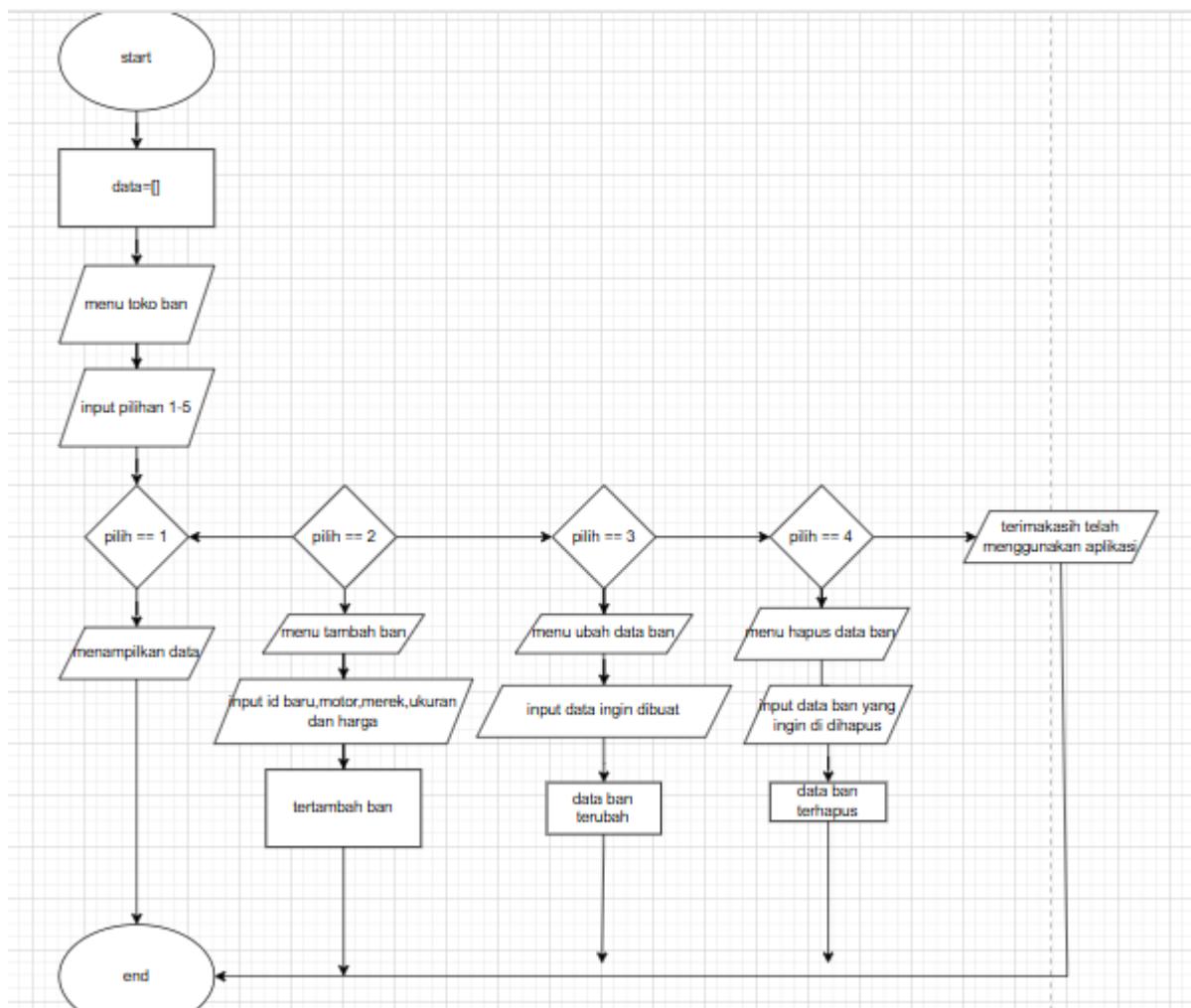
**LAPORAN PRAKTIKUM  
POSTTEST (5)  
ALGORITMA PEMROGRAMAN DASAR**



**Disusun oleh:**  
**MAYNARD CHRISTIAN TALLU LEMBANG**  
**(2509106114)**  
**Kelas (C2 '25)**

**PROGRAM STUDI INFORMATIKA  
UNIVERSITAS MULAWARMAN  
SAMARINDA  
2025**

## 1. Flowchart



## 2. Deskripsi Singkat Program

Tujuan nya untuk jual ban dan fungsinya untuk belajar membuat program

## 3. Source Code

```
# Program CRUD Toko Ban

data_ban = [
    (1, "Nmax", "Michelin", "110/70-13", 450000),
    (2, "Nmax", "Maxxis", "130/70-13", 430000),
    (3, "Nmax", "IRC", "110/70-13", 350000),
    (4, "Nmax", "Dunlop", "130/70-13", 420000),
    (5, "Supermoto", "Pirelli", "120/70-17", 1500000),
    (6, "Supermoto", "Metzeler", "160/60-17", 1650000),
    (7, "Vario", "FDR", "80/90-14", 180000),
    (8, "Vario", "IRC", "90/90-14", 200000),
    (9, "Xmax", "Michelin", "120/70-15", 750000),
    (10, "Xmax", "Bridgestone", "140/70-14", 780000),
    (11, "Beat", "FDR", "80/90-14", 170000),
    (12, "Beat", "IRC", "90/80-14", 190000),
    (13, "MX", "Dunlop", "70/90-17", 250000),
    (14, "MX", "IRC", "80/90-17", 230000),
    (15, "Scoopy", "FDR", "90/90-12", 200000),
    (16, "Scoopy", "IRC", "100/90-12", 210000)
]

jalan = True

while jalan:
    print("==== MENU TOKO BAN ====")
    print("1. Tampilkan Data Ban")
    print("2. Tambah Data Ban")
    print("3. Ubah Data Ban")
    print("4. Hapus Data Ban")
    print("5. Keluar")
```

```

pilihan = input("Pilih menu (1-5): ")

# READ
if pilihan == "1":
    print("==== DATA BAN TOKO ====")
    if not data_ban:
        print("Tidak ada data ban.")
    else:
        for ban in data_ban:
            print(f"ID: {ban[0]} | Motor: {ban[1]} | Merek: {ban[2]} | Ukuran: {ban[3]} | Harga: Rp{ban[4]}, ")

# CREATE
elif pilihan == "2":
    print("==== TAMBAH DATA BAN ====")
    id_baru = len(data_ban) + 1
    motor = input("Masukkan jenis motor: ")
    merek = input("Masukkan merek ban: ")
    ukuran = input("Masukkan ukuran ban: ")
    harga = int(input("Masukkan harga ban: "))
    data_ban.append((id_baru, motor, merek, ukuran, harga))
    print("Data berhasil ditambahkan!")

# UPDATE
elif pilihan == "3":
    print("==== UBAH DATA BAN ====")
    for ban in data_ban:
        print(f"ID: {ban[0]} | Motor: {ban[1]} | Merek: {ban[2]}")
    id_edit = int(input("Masukkan ID ban yang ingin diubah:"))

    ditemukan = False
    for i in range(len(data_ban)):
        if data_ban[i][0] == id_edit:
            motor = input("Jenis motor baru: ")
            merek = input("Merek baru: ")
            ukuran = input("Ukuran baru: ")
            harga = int(input("Harga baru: "))
            data_ban[i] = (id_edit, motor, merek, ukuran, harga)
            print("✓ Data berhasil diubah!")
            ditemukan = True
    if not ditemukan:
        print(" ID tidak ditemukan!")

```

```
# DELETE
elif pilihan == "4":
    print("==== HAPUS DATA BAN ===")
    for ban in data_ban:
        print(f"ID: {ban[0]} | Motor: {ban[1]} | Merek: {ban[2]}")
    id_hapus = int(input("Masukkan ID ban yang ingin dihapus: "))
    ditemukan = False
    for ban in data_ban:
        if ban[0] == id_hapus:
            data_ban.remove(ban)
            print(" Data berhasil dihapus!")
            ditemukan = True
            break
    if not ditemukan:
        print(" Data tidak ditemukan!")

# EXIT
elif pilihan == "5":
    print(" Terima kasih telah membeli di toko kami.")
    jalan = False # ubah variabel menjadi False untuk menghentikan
loop

else:
    print("Pilihan tidak valid.")
```

#### 4. Hasil Output

```
==== MENU TOKO BAN ====
1. Tampilkan Data Ban
2. Tambah Data Ban
3. Ubah Data Ban
4. Hapus Data Ban
5. Keluar
Pilih menu (1-5): 1
==== DATA BAN TOKO ====
ID: 1 | Motor: Nmax | Merek: Michelin | Ukuran: 110/70-13 | Harga: Rp450,000
ID: 2 | Motor: Nmax | Merek: Maxxis | Ukuran: 130/70-13 | Harga: Rp430,000
ID: 3 | Motor: Nmax | Merek: IRC | Ukuran: 110/70-13 | Harga: Rp350,000
ID: 4 | Motor: Nmax | Merek: Dunlop | Ukuran: 130/70-13 | Harga: Rp420,000
ID: 5 | Motor: Supermoto | Merek: Pirelli | Ukuran: 120/70-17 | Harga: Rp1,500,000
ID: 6 | Motor: Supermoto | Merek: Metzeler | Ukuran: 160/60-17 | Harga: Rp1,650,000
ID: 7 | Motor: Vario | Merek: FDR | Ukuran: 80/90-14 | Harga: Rp180,000
ID: 8 | Motor: Vario | Merek: IRC | Ukuran: 90/90-14 | Harga: Rp200,000
ID: 9 | Motor: Xmax | Merek: Michelin | Ukuran: 120/70-15 | Harga: Rp750,000
ID: 10 | Motor: Xmax | Merek: Bridgestone | Ukuran: 140/70-14 | Harga: Rp780,000
ID: 11 | Motor: Beat | Merek: FDR | Ukuran: 80/90-14 | Harga: Rp170,000
ID: 12 | Motor: Beat | Merek: IRC | Ukuran: 90/80-14 | Harga: Rp190,000
ID: 13 | Motor: MX | Merek: Dunlop | Ukuran: 70/90-17 | Harga: Rp250,000
ID: 14 | Motor: MX | Merek: IRC | Ukuran: 80/90-17 | Harga: Rp230,000
ID: 15 | Motor: Scoopy | Merek: FDR | Ukuran: 90/90-12 | Harga: Rp200,000
ID: 16 | Motor: Scoopy | Merek: IRC | Ukuran: 100/90-12 | Harga: Rp210,000
==== MENU TOKO BAN ====
1. Tampilkan Data Ban
2. Tambah Data Ban
3. Ubah Data Ban
4. Hapus Data Ban
5. Keluar
Pilih menu (1-5): 2
==== TAMBAH DATA BAN ====
Masukkan jenis motor: vario
Masukkan merek ban: irc
Masukkan ukuran ban: 90/90-14
Masukkan harga ban: 200000
```

```
Data berhasil ditambahkan!
==== MENU TOKO BAN ====
1. Tampilkan Data Ban
2. Tambah Data Ban
3. Ubah Data Ban
4. Hapus Data Ban
5. Keluar
Pilih menu (1-5): 3
==== UBAH DATA BAN ====
ID: 1 | Motor: Nmax | Merek: Michelin
ID: 2 | Motor: Nmax | Merek: Maxxis
ID: 3 | Motor: Nmax | Merek: IRC
ID: 4 | Motor: Nmax | Merek: Dunlop
ID: 5 | Motor: Supermoto | Merek: Pirelli
ID: 6 | Motor: Supermoto | Merek: Metzeler
ID: 7 | Motor: Vario | Merek: FDR
ID: 8 | Motor: Vario | Merek: IRC
ID: 9 | Motor: Xmax | Merek: Michelin
ID: 10 | Motor: Xmax | Merek: Bridgestone
ID: 11 | Motor: Beat | Merek: FDR
ID: 12 | Motor: Beat | Merek: IRC
ID: 13 | Motor: MX | Merek: Dunlop
ID: 14 | Motor: MX | Merek: IRC
ID: 15 | Motor: Scoopy | Merek: FDR
ID: 16 | Motor: Scoopy | Merek: IRC
ID: 17 | Motor: vario | Merek: irc
Masukkan ID ban yang ingin diubah: 1
Jenis motor baru: nmax
Merek baru: michelin
Ukuran baru: 120/70-13
Harga baru: 600000
Data berhasil diubah!
==== MENU TOKO BAN ====
1. Tampilkan Data Ban
2. Tambah Data Ban
3. Ubah Data Ban
4. Hapus Data Ban
5. Keluar
Pilih menu (1-5): 4
```

```

==== HAPUS DATA BAN ===
ID: 1 | Motor: nmax | Merek: michelin
ID: 2 | Motor: Nmax | Merek: Maxxis
ID: 3 | Motor: Nmax | Merek: IRC
ID: 4 | Motor: Nmax | Merek: Dunlop
ID: 5 | Motor: Supermoto | Merek: Pirelli
ID: 6 | Motor: Supermoto | Merek: Metzeler
ID: 7 | Motor: Vario | Merek: FDR
ID: 8 | Motor: Vario | Merek: IRC
ID: 9 | Motor: Xmax | Merek: Michelin
ID: 10 | Motor: Xmax | Merek: Bridgestone
ID: 11 | Motor: Beat | Merek: FDR
ID: 12 | Motor: Beat | Merek: IRC
ID: 13 | Motor: MX | Merek: Dunlop
ID: 14 | Motor: MX | Merek: IRC
ID: 15 | Motor: Scoopy | Merek: FDR
ID: 16 | Motor: Scoopy | Merek: IRC
ID: 17 | Motor: vario | Merek: irc
Masukkan ID ban yang ingin dihapus: 1
Data berhasil dihapus!
==== MENU TOKO BAN ===
1. Tampilkan Data Ban
2. Tambah Data Ban
3. Ubah Data Ban
4. Hapus Data Ban
5. Keluar
Pilih menu (1-5): 1
==== DATA BAN TOKO ===
ID: 2 | Motor: Nmax | Merek: Maxxis | Ukuran: 130/70-13 | Harga: Rp430,000
ID: 3 | Motor: Nmax | Merek: IRC | Ukuran: 110/70-13 | Harga: Rp350,000
ID: 4 | Motor: Nmax | Merek: Dunlop | Ukuran: 130/70-13 | Harga: Rp420,000
ID: 5 | Motor: Supermoto | Merek: Pirelli | Ukuran: 120/70-17 | Harga: Rp1,500,000
ID: 6 | Motor: Supermoto | Merek: Metzeler | Ukuran: 160/60-17 | Harga: Rp1,650,000
ID: 7 | Motor: Vario | Merek: FDR | Ukuran: 80/90-14 | Harga: Rp180,000
ID: 8 | Motor: Vario | Merek: IRC | Ukuran: 90/90-14 | Harga: Rp200,000
ID: 9 | Motor: Xmax | Merek: Michelin | Ukuran: 120/70-15 | Harga: Rp750,000
ID: 10 | Motor: Xmax | Merek: Bridgestone | Ukuran: 140/70-14 | Harga: Rp780,000
ID: 11 | Motor: Beat | Merek: FDR | Ukuran: 80/90-14 | Harga: Rp170,000
ID: 12 | Motor: Beat | Merek: IRC | Ukuran: 90/80-14 | Harga: Rp190,000

```

## 5. Langkah-langkah GIT

### 5.1 GIT Add

```
PS C:\Users\mayna\Documents\Praktikum APD\praktikum-apd> git add .
```

Buat menambah folder di git hub

### 5.2 GIT Commit

```
PS C:\Users\mayna\Documents\Praktikum APD\praktikum-apd> git commit -m "upload pt-5"
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

Buat buat upload file di git hub

### 5.3 GIT Push

```
PS C:\Users\mayna\Documents\Praktikum APD\praktikum-apd> git push
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 1.40 KiB | 718.00 KiB/s, done.
Total 5 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/maynardchrist10-collab/praktikum-apd.git
 ee925ec..b9490a9  main -> main
```

ini fungsinya untuk mendorong file nya ke git hub