LAPORAN PRAKTIKUM

POSTTEST (6)

ALGORITMA PEMROGRAMAN DASAR

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PROGRAM STUDI INFORMATIKA

UNIVERSITAS MULAWARMAN

SAMARINDA

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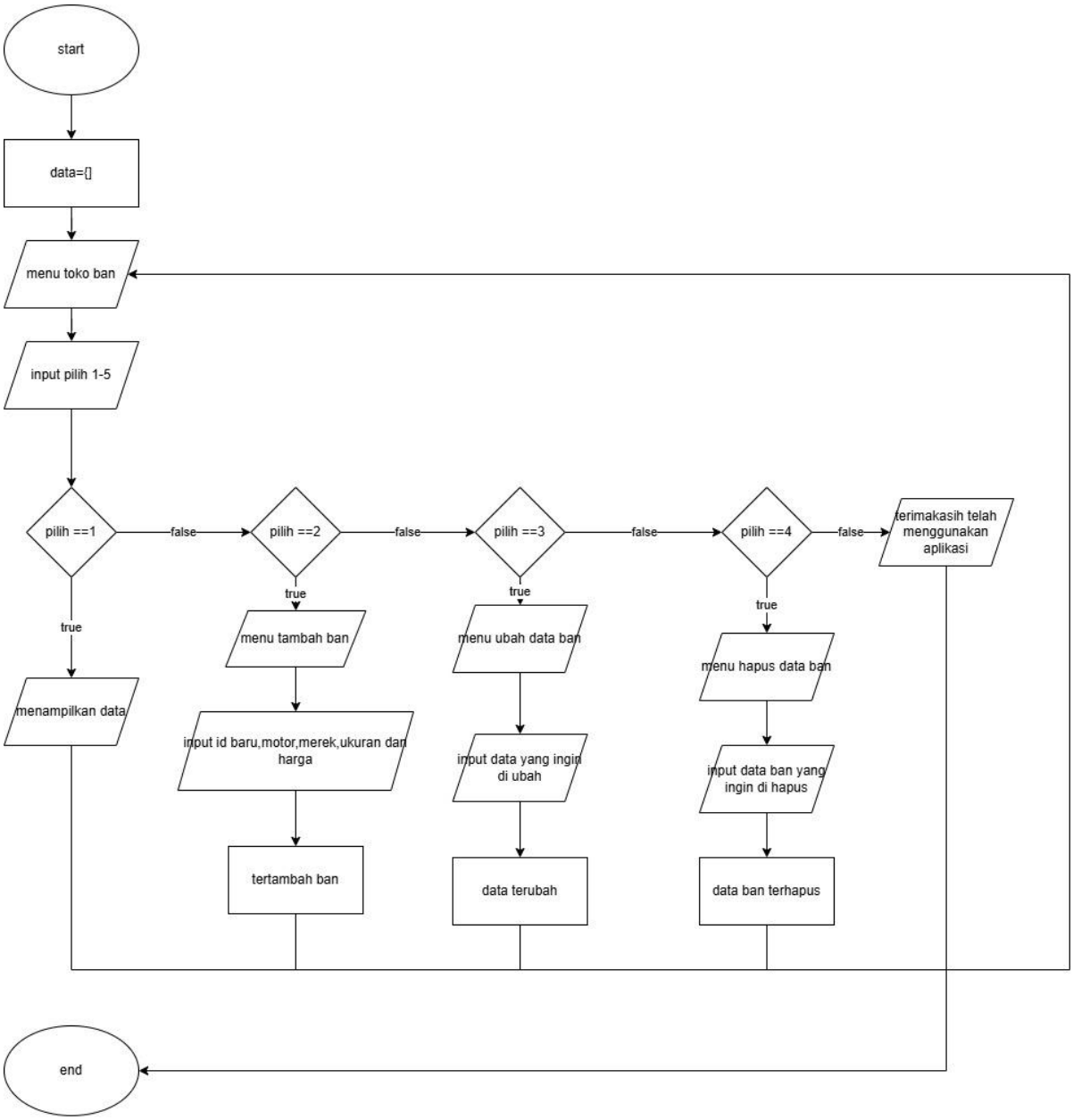
1. Flowchart


start
data=[]
menu toko ban
input pilih 1-5
pilih ==1
false
pilih ==2
false
pilih ==3
false
pilih ==4
false
terimakasih telah menggunakan aplikasi
true
menampilkan data
true
menu tambah ban
input id baru,motor,merek,ukuran dan harga
tertambah ban
true
menu ubah data ban
input data yang ingin di ubah
data terubah
true
menu hapus data ban
input data ban yang ingin di hapus
data ban terhapus
end

2. Deskripsi Singkat Program

Tujuan nya untuk jual ban dan fungsinya untuk belajar membuat program

3. Source Code

```
# Program pakai dictionary


data_ban = {
    1: {"motor": "Nmax", "merek": "Michelin", "ukuran": "110/70-13",
"harga": 450000},
    2: {"motor": "Nmax", "merek": "Maxxis", "ukuran": "130/70-13",
"harga": 430000},
    3: {"motor": "Nmax", "merek": "IRC", "ukuran": "110/70-13",
"harga": 350000},
    4: {"motor": "Nmax", "merek": "Dunlop", "ukuran": "130/70-13",
"harga": 420000},
    5: {"motor": "Supermoto", "merek": "Pirelli", "ukuran": "120/70-
17", "harga": 1500000},
    6: {"motor": "Supermoto", "merek": "Metzeler", "ukuran": "160/60-
17", "harga": 1650000},
    7: {"motor": "Vario", "merek": "FDR", "ukuran": "80/90-14",
"harga": 180000},
    8: {"motor": "Vario", "merek": "IRC", "ukuran": "90/90-14",
"harga": 200000},
    9: {"motor": "Xmax", "merek": "Michelin", "ukuran": "120/70-15",
"harga": 750000},
    10: {"motor": "Xmax", "merek": "Bridgestone", "ukuran": "140/70-
14", "harga": 780000},
    11: {"motor": "Beat", "merek": "FDR", "ukuran": "80/90-14",
"harga": 170000},
    12: {"motor": "Beat", "merek": "IRC", "ukuran": "90/80-14",
"harga": 190000},
    13: {"motor": "MX", "merek": "Dunlop", "ukuran": "70/90-17",
"harga": 250000},
    14: {"motor": "MX", "merek": "IRC", "ukuran": "80/90-17", "harga":
230000},
```

```
    15: {"motor": "Scoopy", "merek": "FDR", "ukuran": "90/90-12",
"harga": 200000},
    16: {"motor": "Scoopy", "merek": "IRC", "ukuran": "100/90-12",
"harga": 210000}
}

jalan = True

while jalan:
    print("\n=== 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("\n=== DATA BAN TOKO ===")
        if not data_ban:
            print("Tidak ada data ban.")
        else:
            for id_ban, info in data_ban.items():
                print(f"ID: {id_ban} | Motor: {info['motor']} | "
                      f"Merek: {info['merek']} | Ukuran:
{info['ukuran']} | "
                      f"Harga: Rp{info['harga']:,}")

    # CREATE
    elif pilihan == "2":
        print("\n=== TAMBAH DATA BAN ===")
        id_baru = max(data_ban.keys()) + 1 if data_ban else 1
        motor = input("Masukkan jenis motor: ")
        merek = input("Masukkan merek ban: ")
        ukuran = input("Masukkan ukuran ban: ")
        harga = int(input("Masukkan harga ban: "))
        data_ban[id_baru] = {"motor": motor, "merek": merek, "ukuran":
ukuran, "harga": harga}
        print("Data berhasil ditambahkan!")

    # UPDATE
```

```
    elif pilihan == "3":
        print("\n=== UBAH DATA BAN ===")
        for id_ban, info in data_ban.items():
            print(f"ID: {id_ban} | Motor: {info['motor']} | Merek:
{info['merek']}")
        try:
            id_edit = int(input("Masukkan ID ban yang ingin diubah: "))
            if id_edit in data_ban:
                motor = input("Jenis motor baru: ")
                merek = input("Merek baru: ")
                ukuran = input("Ukuran baru: ")
                harga = int(input("Harga baru: "))
                data_ban[id_edit] = {"motor": motor, "merek": merek,
"ukuran": ukuran, "harga": harga}
                print("Data berhasil diubah!")
            else:
                print("ID tidak ditemukan!")
        except ValueError:
            print("Input ID harus berupa angka!")

    # DELETE
    elif pilihan == "4":
        print("=== HAPUS DATA BAN ===")
        for id_ban, info in data_ban.items():
            print(f"ID: {id_ban} | Motor: {info['motor']} | Merek:
{info['merek']}")
        try:
            id_hapus = int(input("Masukkan ID ban yang ingin dihapus:
"))
            if id_hapus in data_ban:
                del data_ban[id_hapus]
                print("Data berhasil dihapus!")
            else:
                print("ID tidak ditemukan!")
        except ValueError:
            print("Input ID harus berupa angka!")

    # EXIT
    elif pilihan == "5":
        print("Terima kasih telah membeli di toko kami.")
        jalan = False

    else:
```

```
        print("Pilihan tidak valid, coba lagi.")
```

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-6"
[main 2fac7a1] upload pt-6
 1 file changed, 97 insertions(+)
 create mode 100644 post-test/post-test-apd-6/2509106114_Maynard.py
```

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), 1.43 KiB | 487.00 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
   d5a093a..2fac7a1  main -> main
```

ini fungsinya untuk mendorong file nya ke git hub