

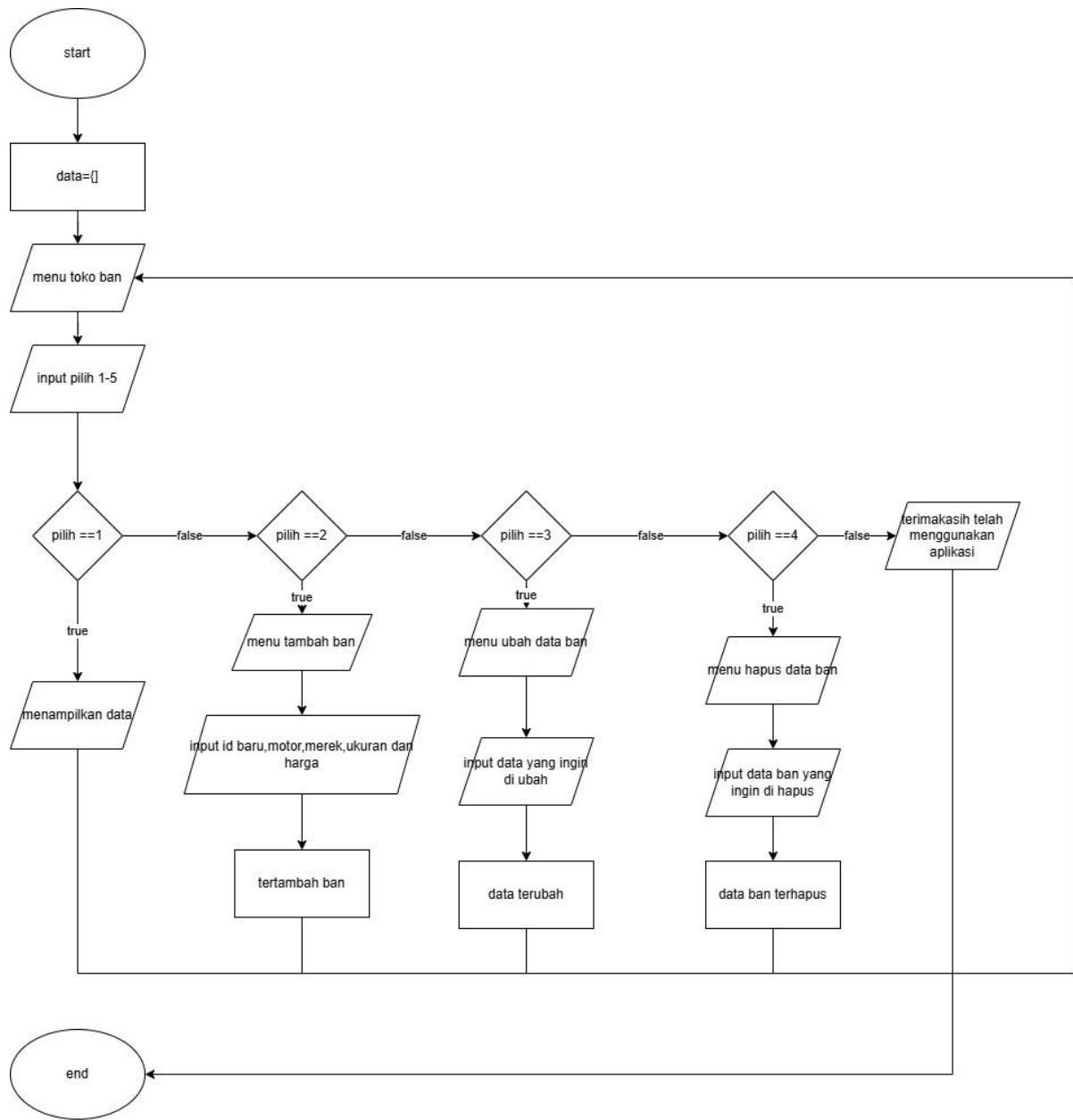
**LAPORAN PRAKTIKUM
POSTTEST (8)
ALGORITMA PEMROGRAMAN DASAR**



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

**PROGRAM STUDI INFORMATIKA
UNIVERSITAS MULAWARMAN
SAMARINDA
2025**

1. Flowchart



2. Deskripsi Singkat Program

Tujuannya untuk jual ban dan fungsinya untuk belajar membuat program

3. Source Code

```
# DATA
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}
}

toko_nama = "Toko Ban"
admin = "REJA"

# HANDLER

def garis():
    print("-" * 65)

def tampilan_data():
    print(f"\n== DATA BAN DI {toko_nama.upper()} ==")
    if not data_ban:
        print("Tidak ada data ban.")
        return
    garis()
    print(f"\n{'ID':<5} {'Motor':<12} {'Merek':<12} {'Ukuran':<12}\n{'Harga (Rp)':>10}")
    garis()
    for id_ban, info in data_ban.items():
        print(f"\n{id_ban:<5} {info['motor']:<12} {info['merek']:<12}\n{info['ukuran']:<12} {info['harga']:>10,}")
    garis()

def cari_ban_berdasarkan_motor(motor_cari):
    ditemukan = False
    print(f"\nHasil pencarian untuk motor '{motor_cari}' :")
    garis()
    print(f"\n{'ID':<5} {'Merek':<12} {'Ukuran':<12} {'Harga (Rp)':>10}")
    garis()
    for id_ban, info in data_ban.items():
        if info["motor"].lower() == motor_cari.lower():
            print(f"\n{id_ban:<5} {info['merek']:<12}\n{info['ukuran']:<12} {info['harga']:>10,}")
            ditemukan = True
    garis()
    if not ditemukan:
        print("Ban untuk motor tersebut tidak ditemukan.")

def tambah_():

```

```

print("==== TAMBAH DATA BAN ====")
try:
    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!")
except ValueError:
    print(" Input harga harus berupa angka!")

def ubah_data(id_edit):
    try:
        if id_edit in data_ban:
            motor = input("Masukkan jenis motor baru: ")
            merek = input("Masukkan merek baru: ")
            ukuran = input("Masukkan ukuran baru: ")
            harga = int(input("Masukkan 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 harga harus berupa angka!")

def hapus_data(id_hapus):
    if id_hapus in data_ban:
        del data_ban[id_hapus]
        print(" Data berhasil dihapus!")
    else:
        print(" ID tidak ditemukan!")

jalan = True

while jalan:
    print(f"==== MENU {toko_nama.upper()} ====")
    print("1. Tampilkan Data Ban")
    print("2. Tambah Data Ban")
    print("3. Ubah Data Ban")

```

```

print("4. Hapus Data Ban")
print("5. Cari Ban Berdasarkan Motor")
print("6. Keluar")

pilihan = input("Pilih menu (1-6): ")

if pilihan == "1":
    tampilan_data()
elif pilihan == "2":
    tambah_data()
elif pilihan == "3":
    tampilan_data()
    try:
        id_edit = int(input("Masukkan ID ban yang ingin diubah: "))
        ubah_data(id_edit)
    except ValueError:
        print(" Input ID harus berupa angka!")
elif pilihan == "4":
    tampilan_data()
    try:
        id_hapus = int(input("Masukkan ID ban yang ingin dihapus: "))
        hapus_data(id_hapus)
    except ValueError:
        print(" Input ID harus berupa angka!")
elif pilihan == "5":
    motor_cari = input("Masukkan jenis motor yang ingin dicari: ")
    cari_ban_berdasarkan_motor(motor_cari)
elif pilihan == "6":
    print(f"\nTerima kasih telah berbelanja di {toko_nama}. Sampai jumpa, {admin}! 🙏")
    jalan = False
else:
    print(" Pilihan tidak valid, silakan 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. Cari Ban Berdasarkan Motor
6. Keluar
Pilih menu (1-6): 1
== DATA BAN DI TOKO BAN ==
-----
ID  Motor      Merek        Ukuran      Harga (Rp)
-----
1   Nmax       Michelin    110/70-13   450,000
2   Nmax       Maxxis     130/70-13   430,000
3   Nmax       IRC         110/70-13   350,000
4   Nmax       Dunlop     130/70-13   420,000
5   Supermoto  Pirelli    120/70-17   1,500,000
6   Supermoto  Metzeler   160/60-17   1,650,000
7   Vario      FDR        80/90-14    180,000
8   Vario      IRC        90/90-14    200,000
9   Xmax       Michelin    120/70-15   750,000
10  Xmax       Bridgestone 140/70-14   780,000
11  Beat        FDR        80/90-14    170,000
12  Beat        IRC        90/80-14    190,000
13  MX          Dunlop     70/90-17    250,000
14  MX          IRC        80/90-17    230,000
15  Scoopy     FDR        90/90-12    200,000
16  Scoopy     IRC        100/90-12   210,000
-----
==== MENU TOKO BAN ====
1. Tampilkan Data Ban
2. Tambah Data Ban
3. Ubah Data Ban
4. Hapus Data Ban
5. Cari Ban Berdasarkan Motor
6. Keluar
Pilih menu (1-6): 2
```

```

==== TAMBAH DATA BAN ===
Masukkan jenis motor: MX
Masukkan merek ban: IRC
Masukkan ukuran ban: 80/90-17
Masukkan harga ban: 230000
Data berhasil ditambahkan!
==== MENU TOKO BAN ===
1. Tampilkan Data Ban
2. Tambah Data Ban
3. Ubah Data Ban
4. Hapus Data Ban
5. Cari Ban Berdasarkan Motor
6. Keluar
Pilih menu (1-6): 3
== DATA BAN DI TOKO BAN ==

```

ID	Motor	Merek	Ukuran	Harga (Rp)
1	Nmax	Michelin	110/70-13	450,000
2	Nmax	Maxxis	130/70-13	430,000
3	Nmax	IRC	110/70-13	350,000
4	Nmax	Dunlop	130/70-13	420,000
5	Supermoto	Pirelli	120/70-17	1,500,000
6	Supermoto	Metzeler	160/60-17	1,650,000
7	Vario	FDR	80/90-14	180,000
8	Vario	IRC	90/90-14	200,000
9	Xmax	Michelin	120/70-15	750,000
10	Xmax	Bridgestone	140/70-14	780,000
11	Beat	FDR	80/90-14	170,000
12	Beat	IRC	90/80-14	190,000
13	MX	Dunlop	70/90-17	250,000
14	MX	IRC	80/90-17	230,000
15	Scoopy	FDR	90/90-12	200,000
16	Scoopy	IRC	100/90-12	210,000
17	MX	IRC	80/90-17	230,000

```

Masukkan ID ban yang ingin diubah: 15
Masukkan jenis motor baru: Scoopy
Masukkan merek baru: FDR

```

Masukkan ukuran baru: 90/90-12

Masukkan harga baru: 400000

Data berhasil diubah!

==== MENU TOKO BAN ===

1. Tampilkan Data Ban
2. Tambah Data Ban
3. Ubah Data Ban
4. Hapus Data Ban
5. Cari Ban Berdasarkan Motor
6. Keluar

Pilih menu (1-6): 1

== DATA BAN DI TOKO BAN ==

ID	Motor	Merek	Ukuran	Harga (Rp)
1	Nmax	Michelin	110/70-13	450,000
2	Nmax	Maxxis	130/70-13	430,000
3	Nmax	IRC	110/70-13	350,000
4	Nmax	Dunlop	130/70-13	420,000
5	Supermoto	Pirelli	120/70-17	1,500,000
6	Supermoto	Metzeler	160/60-17	1,650,000
7	Vario	FDR	80/90-14	180,000
8	Vario	IRC	90/90-14	200,000
9	Xmax	Michelin	120/70-15	750,000
10	Xmax	Bridgestone	140/70-14	780,000
11	Beat	FDR	80/90-14	170,000
12	Beat	IRC	90/80-14	190,000
13	MX	Dunlop	70/90-17	250,000
14	MX	IRC	80/90-17	230,000
15	Scoopy	FDR	90/90-12	400,000
16	Scoopy	IRC	100/90-12	210,000
17	MX	IRC	80/90-17	230,000

==== MENU TOKO BAN ===

1. Tampilkan Data Ban
2. Tambah Data Ban
3. Ubah Data Ban
4. Hapus Data Ban
5. Cari Ban Berdasarkan Motor

6. Keluar

Pilih menu (1-6): 4

-- DATA BAN DI TOKO BAN ==

ID	Motor	Merek	Ukuran	Harga (Rp)
1	Nmax	Michelin	110/70-13	450,000
2	Nmax	Maxxis	130/70-13	430,000
3	Nmax	IRC	110/70-13	350,000
4	Nmax	Dunlop	130/70-13	420,000
5	Supermoto	Pirelli	120/70-17	1,500,000
6	Supermoto	Metzeler	160/60-17	1,650,000
7	Vario	FDR	80/90-14	180,000
8	Vario	IRC	90/90-14	200,000
9	Xmax	Michelin	120/70-15	750,000
10	Xmax	Bridgestone	140/70-14	780,000
11	Beat	FDR	80/90-14	170,000
12	Beat	IRC	90/80-14	190,000
13	MX	Dunlop	70/90-17	250,000
14	MX	IRC	80/90-17	230,000
15	Scoopy	FDR	90/90-12	400,000
16	Scoopy	IRC	100/90-12	210,000
17	MX	IRC	80/90-17	230,000

Masukkan ID ban yang ingin dihapus: 17

Data berhasil dihapus!

== MENU TOKO BAN ==

1. Tampilkan Data Ban
2. Tambah Data Ban
3. Ubah Data Ban
4. Hapus Data Ban
5. Cari Ban Berdasarkan Motor
6. Keluar

Pilih menu (1-6): 1

-- DATA BAN DI TOKO BAN ==

ID	Motor	Merek	Ukuran	Harga (Rp)
1	Nmax	Michelin	110/70-13	450,000

2	Nmax	Maxxis	130/70-13	430,000
3	Nmax	IRC	110/70-13	350,000
4	Nmax	Dunlop	130/70-13	420,000
5	Supermoto	Pirelli	120/70-17	1,500,000
6	Supermoto	Metzeler	160/60-17	1,650,000
7	Vario	FDR	80/90-14	180,000
8	Vario	IRC	90/90-14	200,000
9	Xmax	Michelin	120/70-15	750,000
10	Xmax	Bridgestone	140/70-14	780,000
11	Beat	FDR	80/90-14	170,000
12	Beat	IRC	90/80-14	190,000
13	MX	Dunlop	70/90-17	250,000
14	MX	IRC	80/90-17	230,000
15	Scoopy	FDR	90/90-12	400,000
16	Scoopy	IRC	100/90-12	210,000

==== MENU TOKO BAN ===

1. Tampilkan Data Ban
2. Tambah Data Ban
3. Ubah Data Ban
4. Hapus Data Ban
5. Cari Ban Berdasarkan Motor
6. Keluar

Pilih menu (1-6): 5

Masukkan jenis motor yang ingin dicari: Nmax

Hasil pencarian untuk motor 'Nmax':

ID	Merek	Ukuran	Harga (Rp)
1	Michelin	110/70-13	450,000
2	Maxxis	130/70-13	430,000
3	IRC	110/70-13	350,000
4	Dunlop	130/70-13	420,000

==== MENU TOKO BAN ===

1. Tampilkan Data Ban
 2. Tambah Data Ban
 3. Ubah Data Ban
 4. Hapus Data Ban
 5. Cari Ban Berdasarkan Motor
 6. Keluar
- Pilih menu (1-6): 6

Terima kasih telah berbelanja di Toko Ban. Sampai jumpa, REJA! 🙌

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-8"
[main 72b91d3] upload pt-8
 1 file changed, 131 insertions(+)
 create mode 100644 post-test/post-test-apd-8/2509106114-MaynardChristianTalluLembang.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% (5/5), done.
Writing objects: 100% (5/5), 1.72 KiB | 881.00 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
 856a953..72b91d3  main -> main
```

ini fungsinya untuk mendorong file nya ke git hub