

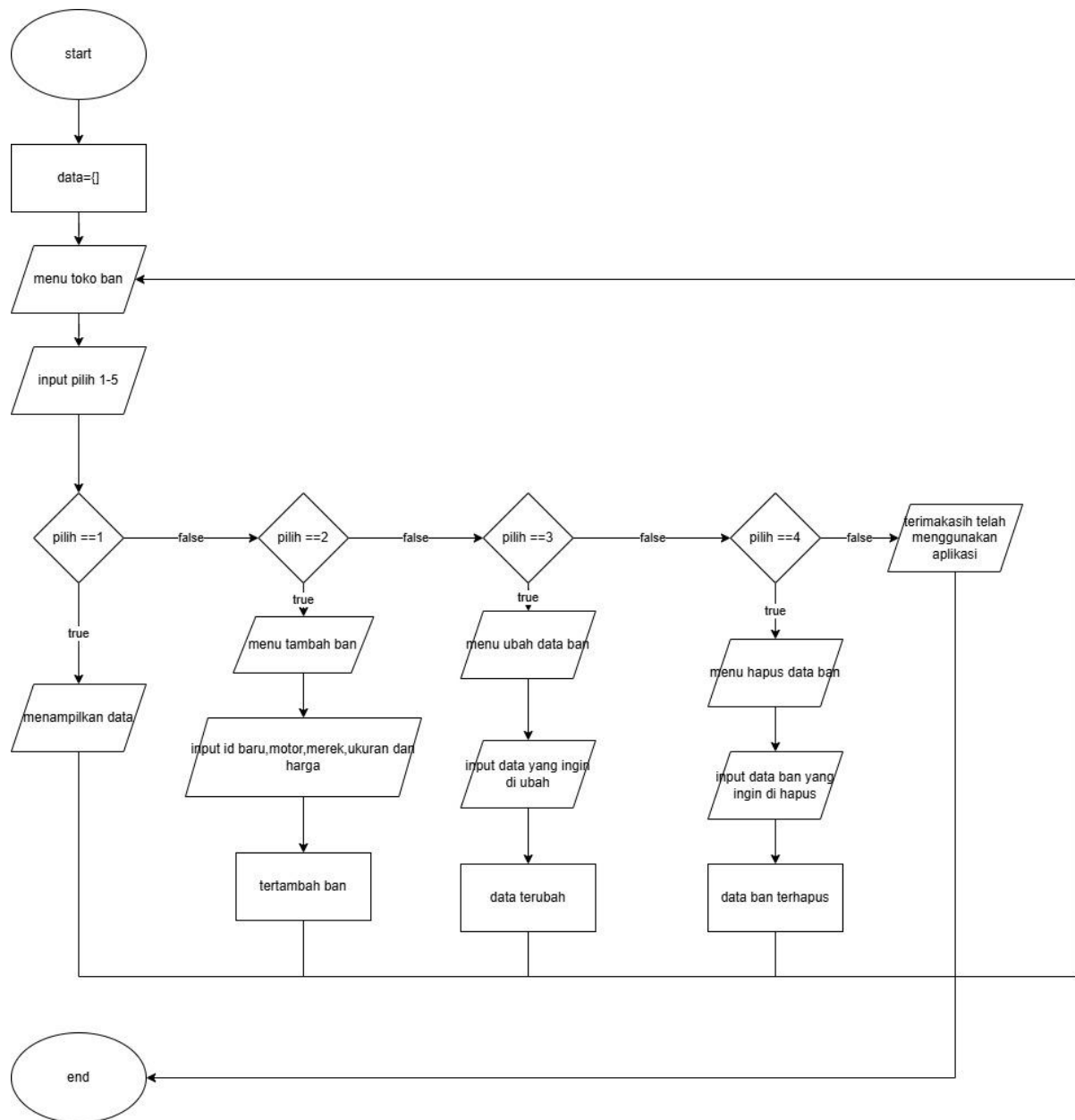
LAPORAN PRAKTIKUM
POSTTEST (7)
ALGORITMA PEMROGRAMAN DASAR



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

```
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"
    jalan = True

def tampilkan_data():
    """Menampilkan seluruh data ban."""
    print(f"== DATA BAN DI {toko_nama} ==")
    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']:,.}")

def cari_ban_berdasarkan_motor(motor_cari):
    """Mencari data ban berdasarkan jenis motor."""
    ditemukan = False
    for id_ban, info in data_ban.items():
        if info['motor'].lower() == motor_cari.lower():
            print(f"ID: {id_ban} | Merek: {info['merek']} | Ukuran: {info['ukuran']} | Harga: Rp{info['harga']:,.}")
            ditemukan = True
    if not ditemukan:
        print("Ban untuk motor tersebut tidak ditemukan.")

def tambah_data():
    """Menambah data ban baru ke dalam dictionary."""
    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: "))

        # variabel lokal: id_baru, motor, merek, ukuran, harga
        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):
    """Mengubah data ban berdasarkan ID."""
    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!")

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":
    tampilkan_data()

elif pilihan == "2":
    tambah_data()

elif pilihan == "3":
    tampilkan_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":
    tampilkan_data()
    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!")

elif pilihan == "5":
    motor_cari = input("Masukkan jenis motor yang ingin dicari: ")
    cari_ban_berdasarkan_motor(motor_cari)

elif pilihan == "6":
    print(f"Terima 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: 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. 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: 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
ID: 17 | Motor: MX | Merek: IRC | Ukuran: 80/90-17 | Harga: Rp230,000
Masukkan ID ban yang ingin diubah: 17
Masukkan jenis motor baru: MX
Masukkan merek baru: IRC
Masukkan ukuran baru: 80/90-17
Masukkan harga baru: 450000
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: 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
ID: 17 | Motor: MX | Merek: IRC | Ukuran: 80/90-17 | Harga: Rp450,000
=== 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: 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
ID: 17 | Motor: MX | Merek: IRC | Ukuran: 80/90-17 | Harga: Rp450,000
Masukkan ID ban yang ingin dihapus: 15
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: 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: 16 | Motor: Scoopy | Merek: IRC | Ukuran: 100/90-12 | Harga: Rp210,000
ID: 17 | Motor: MX | Merek: IRC | Ukuran: 80/90-17 | Harga: Rp450,000
=== 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: MX
ID: 13 | Merek: Dunlop | Ukuran: 70/90-17 | Harga: Rp250,000
ID: 14 | Merek: IRC | Ukuran: 80/90-17 | Harga: Rp230,000
ID: 17 | Merek: IRC | Ukuran: 80/90-17 | Harga: Rp450,000
=== 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!
PS C:\Users\mayna\Documents\Praktikum APD\praktikum-apd\post-test\post-test-apd-7> 

```

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-7"
[main 6d315e1] upload pt-7
 2 files changed, 141 insertions(+), 1 deletion(-)
 create mode 100644 post-test/post-test-apd-7/2509106114_MaynardChristianTalluLembang.py

```

Buat upload file di git hub

5.3 GIT Push

```

PS C:\Users\mayna\Documents\Praktikum APD\praktikum-apd> git push
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 8 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (7/7), 1.83 KiB | 375.00 KiB/s, done.
Total 7 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To https://github.com/maynardchrist10-collab/praktikum-apd.git
 2fe97fb..6d315e1  main -> main

```

ini fungsinya untuk mendorong file nya ke git hub