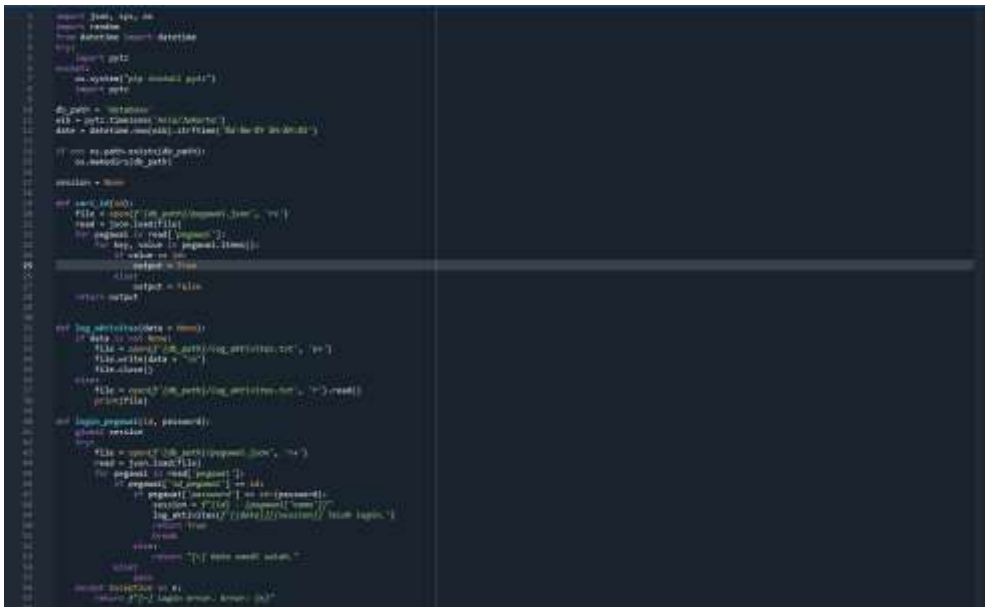
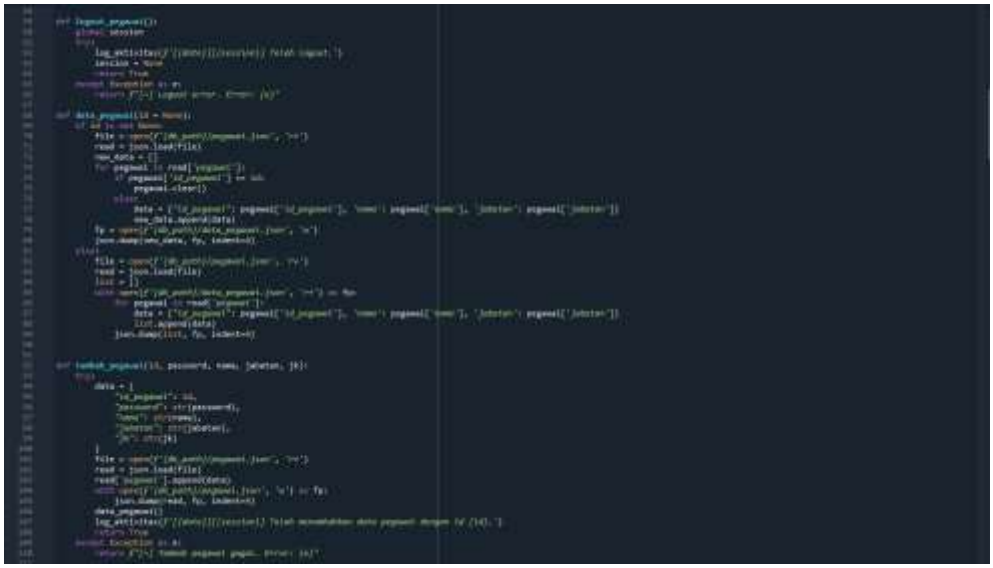
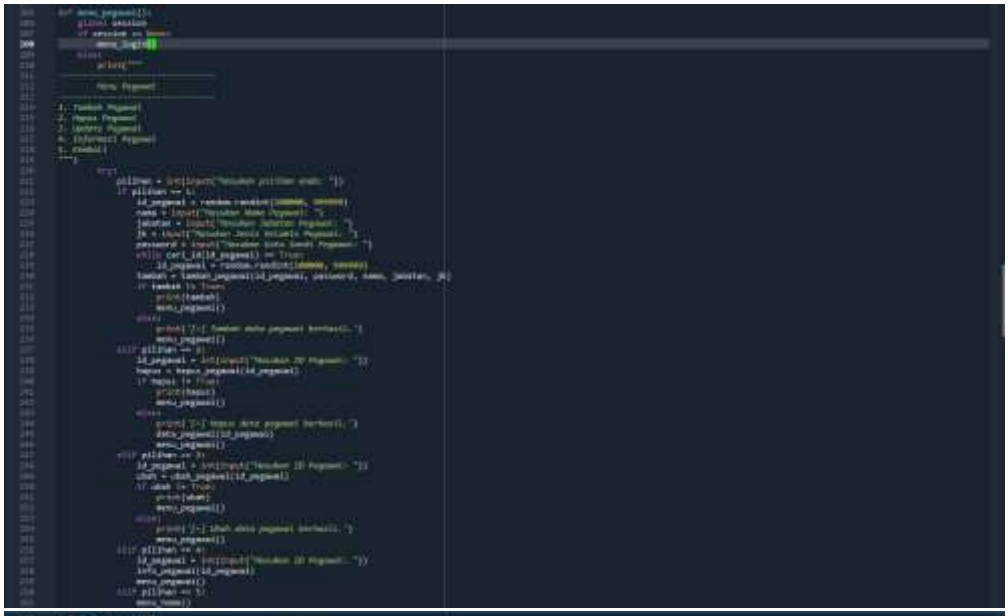
Kelompok 2:

1. Akhmad Surono
2. Emilia Fresia Nandela
3. Fajri Fadillah Sidiq
4. Ilham Mulia
5. M. Afda Kurniawan

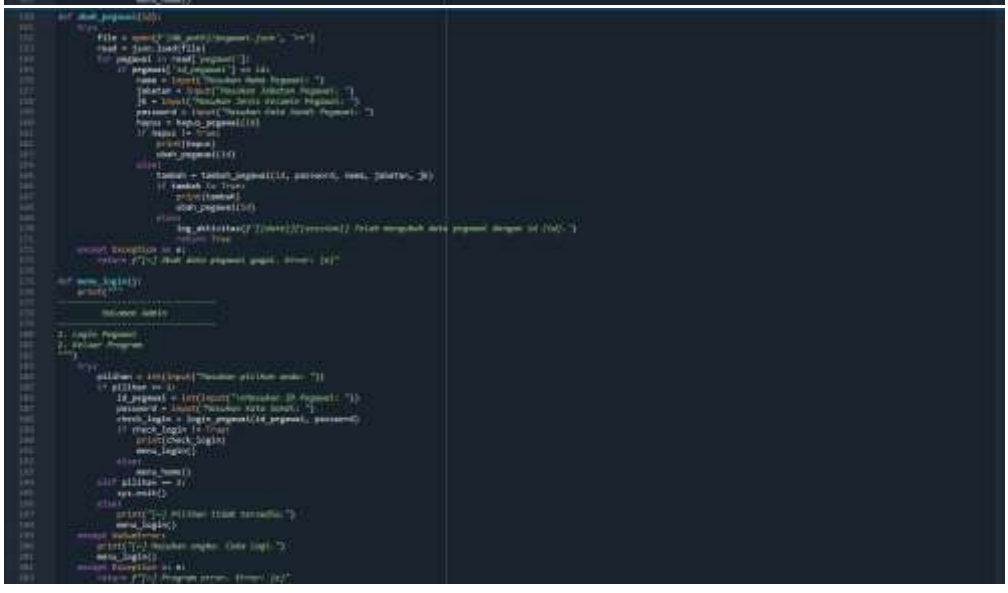




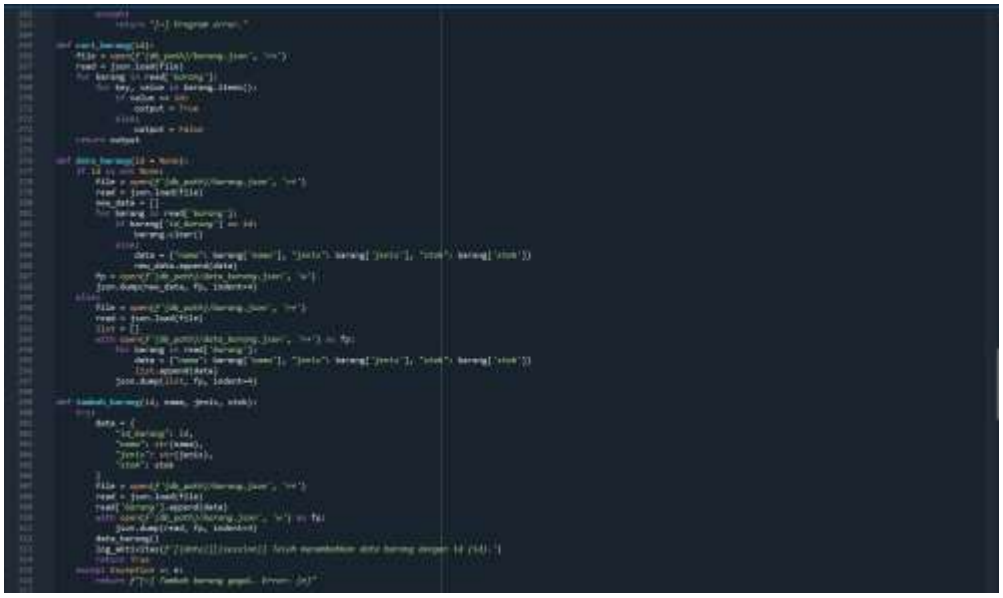
```
def hapus_pegawai(id):
    try:
        file = open(f'{db_path}/pegawai.json', 'r+')
        read = json.load(file)
        new_data = {"pegawai": []}
        for pegawai in read['pegawai']:
            if pegawai['id_pegawai'] == id:
                pegawai.clear()
            else:
                new_data['pegawai'].append(pegawai)
        fp = open(f'{db_path}/pegawai.json', 'w')
        json.dump(new_data, fp, indent=4)
        log_aktivitas(f'[{date}][{version}] Telah menghapus data pegawai dengan id [{id}].')
        return True
    except Exception as e:
        return f"[-] Hapus data pegawai gagal. Error: {e}"

def info_pegawai(id):
    try:
        file = open(f'{db_path}/pegawai.json', 'r+')
        read = json.load(file)
        for pegawai in read['pegawai']:
            if pegawai['id_pegawai'] == id:
                print("""
-------------------------
        Informasi Pegawai
-------------------------
ID Pegawai    : {pegawai['id_pegawai']}
Nama Pegawai  : {pegawai['nama']}
Jabatan       : {pegawai['jabatan']}
Jenis Kelamin : {pegawai['jk']}
                """)
            else:
                pass
        return True
    except Exception as e:
        return f"[-] ID Pegawai tidak ditemukan. Error: {e}"
```



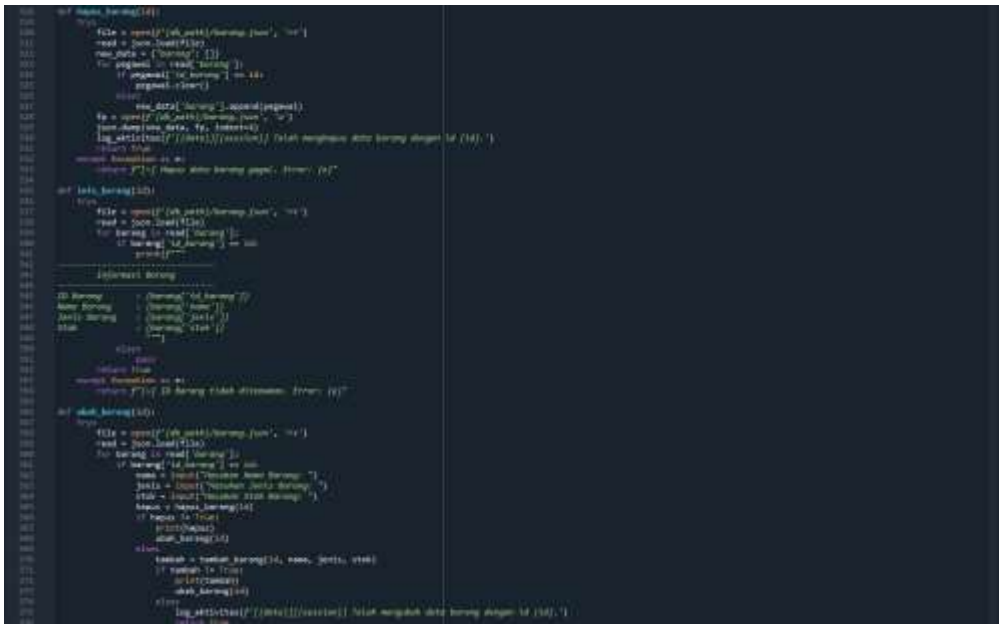
```
def menu_pegawai():
    global session
    if session == None:
        menu_login()
    else:
        print("""
-------------------------
        Menu Pegawai
-------------------------
1. Tambah Pegawai
2. Hapus Pegawai
3. Update Pegawai
4. Informasi Pegawai
5. Kembali
""")
        try:
            pilihan = int(input("Masukan pilihan anda: "))
            if pilihan == 1:
                id_pegawai = random.randint(100000, 999999)
                nama = input("Masukan Nama Pegawai: ")
                jabatan = input("Masukan Jabatan Pegawai: ")
                jk = input("Masukan Jenis Kelamin Pegawai: ")
                password = input("Masukan Kata Sandi Pegawai: ")
                while cari_id(id_pegawai) == True:
                    id_pegawai = random.randint(100000, 999999)
                tambah = tambah_pegawai(id_pegawai, password, nama, jabatan, jk)
                if tambah != True:
                    print(tambah)
                    menu_pegawai()
                else:
                    print('[-] Tambah data pegawai berhasil.')
                    menu_pegawai()
            elif pilihan == 2:
                id_pegawai = int(input("Masukan ID Pegawai: "))
                hapus = hapus_pegawai(id_pegawai)
                if hapus != True:
                    print(hapus)
                    menu_pegawai()
                else:
                    print('[-] Hapus data pegawai berhasil.')
                    data_pegawai(id_pegawai)
                    menu_pegawai()
            elif pilihan == 3:
                id_pegawai = int(input("Masukan ID Pegawai: "))
                ubah = ubah_pegawai(id_pegawai)
                if ubah != True:
                    print(ubah)
                    menu_pegawai()
                else:
                    print('[-] Ubah data pegawai berhasil.')
                    menu_pegawai()
            elif pilihan == 4:
                id_pegawai = int(input("Masukan ID Pegawai: "))
                info_pegawai(id_pegawai)
                menu_pegawai()
            elif pilihan == 5:
                menu_home()
```



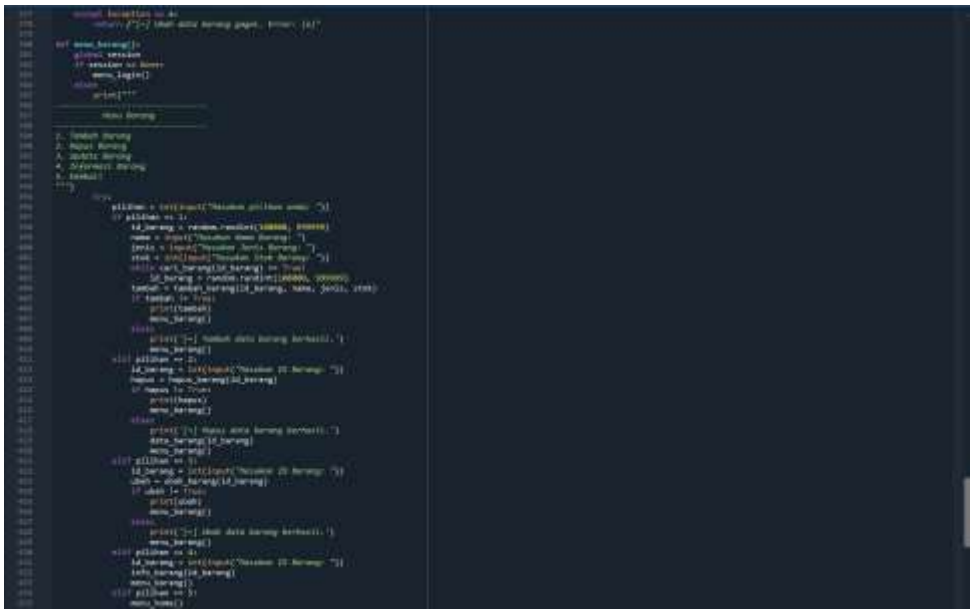
```
def ubah_pegawai(id):
    try:
        file = open(f'{db_path}/pegawai.json', 'r+')
        read = json.load(file)
        for pegawai in read['pegawai']:
            if pegawai['id_pegawai'] == id:
                nama = input("Masukan Nama Pegawai: ")
                jabatan = input("Masukan Jabatan Pegawai: ")
                jk = input("Masukan Jenis Kelamin Pegawai: ")
                password = input("Masukan Kata Sandi Pegawai: ")
                hapus = hapus_pegawai(id)
                if hapus != True:
                    print(hapus)
                    ubah_pegawai(id)
                else:
                    tambah = tambah_pegawai(id, password, nama, jabatan, jk)
                    if tambah != True:
                        print(tambah)
                        ubah_pegawai(id)
                    else:
                        log_aktivitas(f'[{date}][{version}] Telah mengubah data pegawai dengan id [{id}].')
                        return True
    except Exception as e:
        return f"[-] Ubah data pegawai gagal. Error: {e}"

def menu_login():
    print("""
-------------------------
        Halaman Admin
-------------------------
1. Login Pegawai
2. Keluar Program
""")
    try:
        pilihan = int(input("Masukan pilihan anda: "))
        if pilihan == 1:
            id_pegawai = int(input("\nMasukan ID Pegawai: "))
            password = input("Masukan Kata Sandi: ")
            check_login = login_pegawai(id_pegawai, password)
            if check_login != True:
                print(check_login)
                menu_login()
            else:
                menu_home()
        elif pilihan == 2:
            sys.exit()
        else:
            print("[-] Pilihan tidak tersedia.")
            menu_login()
    except ValueError:
        print("[-] Masukan angka. Coba lagi.")
        menu_login()
    except Exception as e:
        return f"[-] Program error. Error: {e}"
```



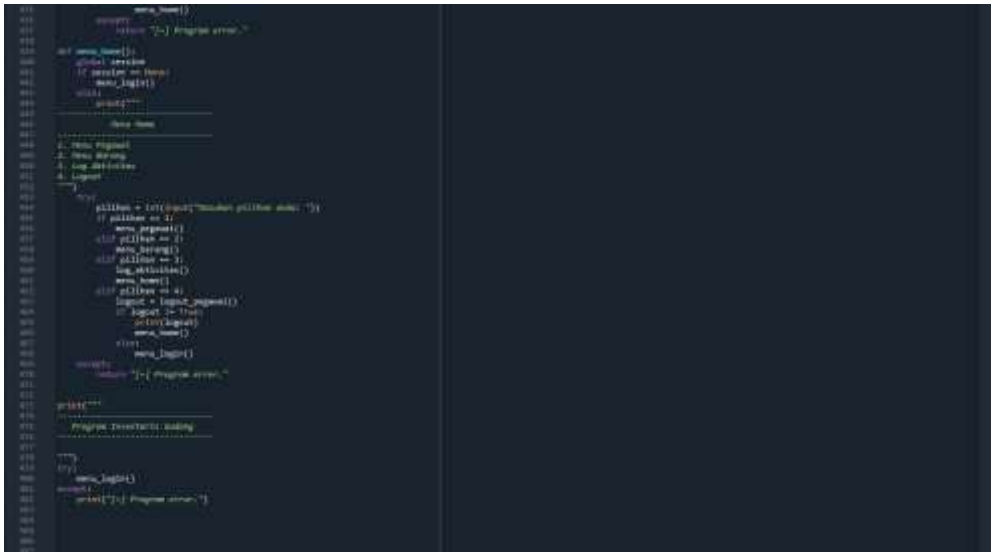
```python
        pass
        return "[-] Program error."

def cari_barang(id):
    file = open(f'{db_path}/barang.json', 'r+')
    read = json.load(file)
    for barang in read['barang']:
        for key, value in barang.items():
            if value == id:
                output = True
            else:
                output = False
    return output

def data_barang(id = None):
    if id is not None:
        file = open(f'{db_path}/barang.json', 'r+')
        read = json.load(file)
        new_data = []
        for barang in read['barang']:
            if barang['id_barang'] == id:
                barang.clear()
            else:
                data = {'name': barang['name'], 'jenis': barang['jenis'], 'stok': barang['stok']}
                new_data.append(data)
        fp = open(f'{db_path}/data_barang.json', 'w')
        json.dump(new_data, fp, indent=4)
    else:
        file = open(f'{db_path}/barang.json', 'r+')
        read = json.load(file)
        list = []
        with open(f'{db_path}/data_barang.json', 'r+') as fp:
            for barang in read['barang']:
                data = {'name': barang['name'], 'jenis': barang['jenis'], 'stok': barang['stok']}
                list.append(data)
            json.dump(list, fp, indent=4)

def tambah_barang(id, name, jenis, stok):
    try:
        data = {
            'id_barang': id,
            'name': str(name),
            'jenis': str(jenis),
            'stok': stok
        }
        file = open(f'{db_path}/barang.json', 'r+')
        read = json.load(file)
        read['barang'].append(data)
        with open(f'{db_path}/barang.json', 'w') as fp:
            json.dump(read, fp, indent=4)
        data_barang()
        log_activities(f'{[date]}[[session]] Telah menambahkan data barang dengan id (id).')
        return True
    except Exception as e:
        return f"[-] Tambah barang gagal. Error: {e}"
```



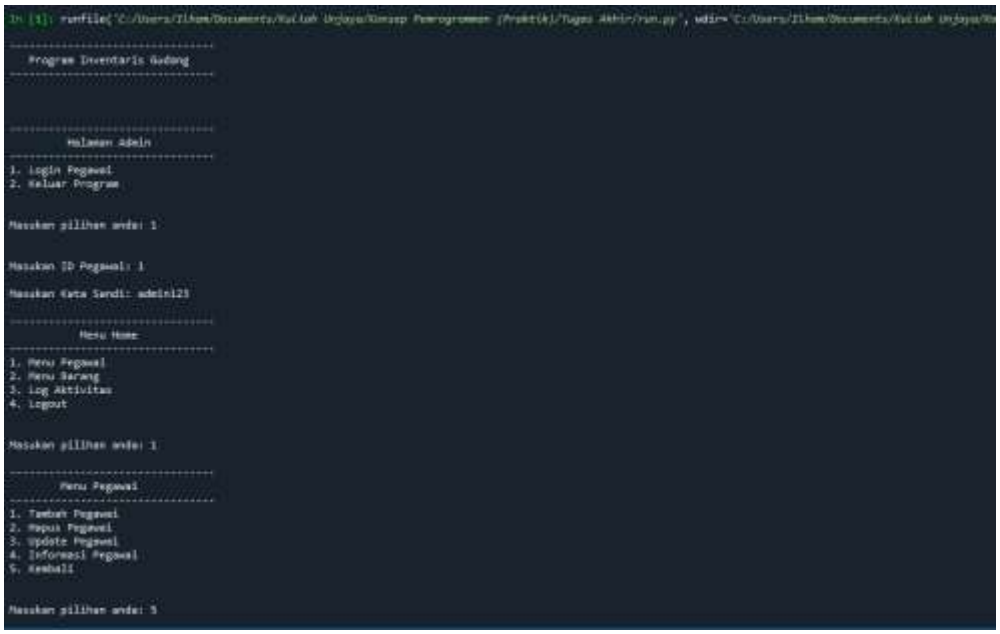
```python
def hapus_barang(id):
    try:
        file = open(f'{db_path}/barang.json', 'r+')
        read = json.load(file)
        new_data = {'barang': []}
        for pegawai in read['barang']:
            if pegawai['id_barang'] == id:
                pegawai.clear()
            else:
                new_data['barang'].append(pegawai)
        fp = open(f'{db_path}/barang.json', 'w')
        json.dump(new_data, fp, indent=4)
        log_activities(f'{[date]}[[session]] Telah menghapus data barang dengan id (id).')
        return True
    except Exception as e:
        return f"[-] Hapus data barang gagal. Error: {e}"

def info_barang(id):
    try:
        file = open(f'{db_path}/barang.json', 'r+')
        read = json.load(file)
        for barang in read['barang']:
            if barang['id_barang'] == id:
                print(f"""
-------------------------------
        Informasi Barang
-------------------------------
ID Barang       : {barang['id_barang']}
Name Barang     : {barang['name']}
Jenis Barang    : {barang['jenis']}
Stok            : {barang['stok']}
                    ""
            else:
                pass
        return True
    except Exception as e:
        return f"[-] ID Barang tidak ditemukan. Error: {e}"

def ubah_barang(id):
    try:
        file = open(f'{db_path}/barang.json', 'r+')
        read = json.load(file)
        for barang in read['barang']:
            if barang['id_barang'] == id:
                name = input("Masukan Name Barang: ")
                jenis = input("Masukan Jenis Barang: ")
                stok = input("Masukan Stok Barang: ")
                hapus = hapus_barang(id)
                if hapus != True:
                    print(hapus)
                    ubah_barang(id)
                else:
                    tambah = tambah_barang(id, name, jenis, stok)
                    if tambah != True:
                        print(tambah)
                        ubah_barang(id)
                    else:
                        log_activities(f'{[date]}[[session]] Telah mengubah data barang dengan id (id).')
```



```python
    except Exception as e:
        return f"[-] Ubah data barang gagal. Error: {e}"

def menu_barang():
    global session
    if session == None:
        menu_login()
    else:
        print("""
-------------------------------
        Menu Barang
-------------------------------
1. Tambah Barang
2. Hapus Barang
3. Update Barang
4. Informasi Barang
5. Kembali
""")
        try:
            pilihan = int(input("Masukan pilihan menu: "))
            if pilihan == 1:
                id_barang = random.randint(100000, 200000)
                name = input("Masukan Name Barang: ")
                jenis = input("Masukan Jenis Barang: ")
                stok = int(input("Masukan Stok Barang: "))
                while cari_barang(id_barang) == True:
                    id_barang = random.randint(100000, 200000)
                tambah = tambah_barang(id_barang, name, jenis, stok)
                if tambah != True:
                    print(tambah)
                    menu_barang()
                else:
                    print(']-[ Tambah data barang berhasil.')
                    menu_barang()
            elif pilihan == 2:
                id_barang = int(input("Masukan ID Barang: "))
                hapus = hapus_barang(id_barang)
                if hapus != True:
                    print(hapus)
                    menu_barang()
                else:
                    print(']-[ Hapus data barang berhasil.')
                    data_barang(id_barang)
                    menu_barang()
            elif pilihan == 3:
                id_barang = int(input("Masukan ID Barang: "))
                ubah = ubah_barang(id_barang)
                if ubah != True:
                    print(ubah)
                    menu_barang()
                else:
                    print(']-[ Ubah data barang berhasil.')
                    menu_barang()
            elif pilihan == 4:
                id_barang = int(input("Masukan ID Barang: "))
                info_barang(id_barang)
                menu_barang()
            elif pilihan == 5:
                menu_home()
```



```
            menu_home()
        except:
            return "[-] Program error."

def menu_home():
    global session
    if session == False:
        menu_login()
    else:
        print("""
--------------------------------
            Menu Home
--------------------------------
1. Menu Pegawai
2. Menu Barang
3. Log Aktivitas
4. Logout
""")
        try:
            pilihan = int(input("Masukan pilihan anda: "))
            if pilihan == 1:
                menu_pegawai()
            elif pilihan == 2:
                menu_barang()
            elif pilihan == 3:
                log_aktivitas()
                menu_home()
            elif pilihan == 4:
                logout = logout_pegawai()
                if logout != True:
                    print(logout)
                    menu_home()
                else:
                    menu_login()
        except:
            return "[-] Program error."

print("""
--------------------------------
   Program Inventaris Gudang
--------------------------------

""")
try:
    menu_login()
except:
    print("[-] Program error.")
```



```
In [1]: runfile('C:/Users/Ilham/Documents/Kuliah Unjaya/Konsep Pemrograman (Praktik)/Tugas Akhir/run.py', wdir='C:/Users/Ilham/Documents/Kuliah Unjaya/Ko

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   Program Inventaris Gudang
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--------------------------------
        Halaman Admin
--------------------------------
1. Login Pegawai
2. Keluar Program

Masukan pilihan anda: 1

Masukan ID Pegawai: 1

Masukan Kata Sandi: admin123

--------------------------------
           Menu Home
--------------------------------
1. Menu Pegawai
2. Menu Barang
3. Log Aktivitas
4. Logout

Masukan pilihan anda: 1

--------------------------------
         Menu Pegawai
--------------------------------
1. Tambah Pegawai
2. Hapus Pegawai
3. Update Pegawai
4. Informasi Pegawai
5. Kembali

Masukan pilihan anda: 5
```

```
--------------------------------
          Menu Home
--------------------------------
1. Menu Pegawai
2. Menu Barang
3. Log Aktivitas
4. Logout


Masukan pilihan anda: 2

--------------------------------
         Menu Barang
--------------------------------
1. Tambah Barang
2. Hapus Barang
3. Update Barang
4. Informasi Barang
5. Kembali


Masukan pilihan anda: 5

--------------------------------
          Menu Home
--------------------------------
1. Menu Pegawai
2. Menu Barang
3. Log Aktivitas
4. Logout


Masukan pilihan anda: 3
[27-12-2021 15:02:48][1 - Admin 1] Telah login.
[27-12-2021 15:02:48][1 - Admin 1] Telah menambahkan data pegawai dengan id 569704.
[27-12-2021 15:02:48][1 - Admin 1] Telah logout.
[27-12-2021 15:02:48][569704 - Rudi] Telah login.
[27-12-2021 15:02:48][569704 - Rudi] Telah menambahkan data barang dengan id 168899.
[27-12-2021 15:02:48][569704 - Rudi] Telah logout.
[28-12-2021 08:48:44][1 - Admin 1] Telah login.
[28-12-2021 08:48:44][1 - Admin 1] Telah menambahkan data barang dengan id 634955.
[28-12-2021 08:57:25][1 - Admin 1] Telah login.
[28-12-2021 08:57:25][1 - Admin 1] Telah menambahkan data pegawai dengan id 341832.
[28-12-2021 08:57:25][1 - Admin 1] Telah logout.
[28-12-2021 08:57:25][341832 - Irwan] Telah login.
[28-12-2021 08:57:25][341832 - Irwan] Telah menghapus data pegawai dengan id 569704.
[12-01-2022 17:25:51][1 - Admin 1] Telah login.
```

```
--------------------------------
          Menu Home
--------------------------------
1. Menu Pegawai
2. Menu Barang
3. Log Aktivitas
4. Logout


Masukan pilihan anda: 4

--------------------------------
         Halaman Admin
--------------------------------
1. Login Pegawai
2. Keluar Program


Masukan pilihan anda: 2

In [2]:
```