1. **Create a class Emp (eid,ename,basic).**

```
import pickle
class Emp:
    def __init__(self, eid, ename, basic):
        self.eid = eid
        self.ename = ename
        self.basic = basic

    def display(self):
        print(f"ID: {self.eid}, Name: {self.ename}, Basic: {self.basic}")

def add_record(filename):
    eid = int(input("Enter Employee ID: "))
    ename = input("Enter Employee Name: ")
    basic = float(input("Enter Basic Salary: "))
    emp = Emp(eid, ename, basic)
    with open(filename, 'ab') as f:
        pickle.dump(emp, f)
    print("Record added successfully.")

def display_all(filename):
    try:
        with open(filename, 'rb') as f:
            while True:
                emp = pickle.load(f)
                emp.display()
    except (EOFError, FileNotFoundError):
        print("No records found.")

def search_record(filename):
    eid = int(input("Enter Employee ID to search: "))
    found = False
    try:
        with open(filename, 'rb') as f:
            while True:
                emp = pickle.load(f)
                if emp.eid == eid:
                    emp.display()
                    found = True
                    break
```

```
    except (EOFError, FileNotFoundError):
        pass
    if not found:
        print("Record not found.")

def delete_record(filename):
    eid = int(input("Enter Employee ID to delete: "))
    records = []
    found = False
    try:
        with open(filename, 'rb') as f:
            while True:
                emp = pickle.load(f)
                if emp.eid != eid:
                    records.append(emp)
                else:
                    found = True
    except (EOFError, FileNotFoundError):
        pass
    with open(filename, 'wb') as f:
        for emp in records:
            pickle.dump(emp, f)
    if found:
        print("Record deleted.")
    else:
        print("Record not found.")

def edit_record(filename):
    eid = int(input("Enter Employee ID to edit: "))
    records = []
    found = False
    try:
        with open(filename, 'rb') as f:
            while True:
                emp = pickle.load(f)
                if emp.eid == eid:
                    emp.ename = input("Enter new name: ")
                    emp.basic = float(input("Enter new basic salary: "))
                    found = True
                records.append(emp)
```

```
    except (EOFError, FileNotFoundError):
        pass
    with open(filename, 'wb') as f:
        for emp in records:
            pickle.dump(emp, f)
    if found:
        print("Record updated.")
    else:
        print("Record not found.")
```

2. WAP a menu driven program to perform following operations using files :

a. Add a record

b. Search for a record using id

c. Delete a record using id

d. Edit a record using id.

e. Display all records.

```
from employee import add_record, display_all, search_record, delete_record,
edit_record
def main():
    filename = "employees.dat"
    while True:
        print("\n--- Employee Management ---")
        print("1. Add Record")
        print("2. Display All Records")
        print("3. Search Record by ID")
        print("4. Delete Record by ID")
        print("5. Edit Record by ID")
        print("6. Exit")
        choice = input("Enter your choice: ")

        if choice == '1':
            add_record(filename)
        elif choice == '2':
            display_all(filename)
```

```
        elif choice == '3':
            search_record(filename)
        elif choice == '4':
            delete_record(filename)
        elif choice == '5':
            edit_record(filename)
        elif choice == '6':
            print("Exiting program.")
            break
        else:
            print("Invalid choice! Try again.")

if __name__ == "__main__":
    main()
```