## 8. ILLUSTRATION OF BINARY FILE PROGRAMING-II

A binary file named "flight.dat" which will contain certain records of flight (flightid,flightname and number of passengers). Write a menu driven program to do the following task:

- 1. Append a record
- 2. Delete a record
- 3. Read and display all.

## Source Code

```
import pickle
f = open("flight.dat", "a") # Ensure that the file exists
f.close()
flights = []
with open("flight.dat", "rb") as f:
   while True:
        try: # Using a try block to catch errors
            flight = pickle.load(f)
            flights.append(flight)
        except EOFError:
            break
def appendFlight():
   flightID = int(input("Enter flight ID: "))
   flightName = input("Enter flight name: ")
    nop = int(input("Enter number of passengers: "))
   with open("flight.dat", "ab") as f:
        pickle.dump([flightID, flightName, nop], f)
def deleteFlight():
   flightID = int(input("Enter flight ID: "))
   flights = []
   with open("flight.dat", "rb") as f:
        while True:
            try: # Using a try block to catch errors
```

```
flight = pickle.load(f)
               flights.append(flight)
           except EOFError:
               break
   newflights = []
   for flight in flights:
       if flight[0] != flightID:
           newflights.append(flight)
   with open("flight.dat", "wb") as f:
       for flight in newflights:
           pickle.dump(flight, f)
   print("Removed flight with ID", flightID)
def showFlights():
   flights = []
   with open("flight.dat", "rb") as f:
       while True:
           try: # Using a try block to catch errors
               flight = pickle.load(f)
               flights.append(flight)
           except EOFError:
               break
   for flight in flights:
       print("----")
       print("ID :", flight[0])
print("Name :", flight[1])
       print("Passengers:", flight[2])
       print("----")
while True:
   print("======="")
   print("What would you like to do?")
   print("""
   [1] Append a flight
   [2] Delete a flight
   [3] Show all flights
   [4] Exit
   """)
   ch = input("Enter your choice[1/2/3/4]: ")
   if ch == "1":
       appendFlight()
```

```
elif ch == "2":
    deleteFlight()

elif ch == "3":
    showFlights()

elif ch == "4":
    print("[ Exiting ]") # Break from the loop to exit
    break

else:
    print("[ Invalid Choice ]") # In case user inputs a choice that was n
```

## **OUTPUT**

Enter flight ID: 3

```
What would you like to do?
   [1] Append a flight
   [2] Delete a flight
   [3] Show all flights
   [4] Exit
Enter your choice[1/2/3/4]: 1
Enter flight ID: 1
Enter flight name: Air Jet
Enter number of passengers: 32
_____
What would you like to do?
   [1] Append a flight
   [2] Delete a flight
   [3] Show all flights
   [4] Exit
Enter your choice[1/2/3/4]: 1
Enter flight ID: 2
Enter flight name: Wind Jet
Enter number of passengers: 33
-----
What would you like to do?
   [1] Append a flight
   [2] Delete a flight
   [3] Show all flights
   [4] Exit
Enter your choice[1/2/3/4]: 1
```

```
Enter number of passengers: 56
_____
What would you like to do?
   [1] Append a flight
  [2] Delete a flight
  [3] Show all flights
  [4] Exit
Enter your choice[1/2/3/4]: 3
_____
ID
      : 1
Name : Air Jet
Passengers: 32
-----
_____
      : 2
Name : Wind Jet
Passengers: 33
-----
-----
      : 3
ID
Name : Fly Jet
Passengers: 56
-----
_____
What would you like to do?
  [1] Append a flight
  [2] Delete a flight
  [3] Show all flights
  [4] Exit
Enter your choice[1/2/3/4]: 2
Enter flight ID: 2
Removed flight with ID 2
-----
What would you like to do?
   [1] Append a flight
  [2] Delete a flight
  [3] Show all flights
  [4] Exit
Enter your choice[1/2/3/4]: 3
______
ID
      : 1
Name : Air Jet
Passengers: 32
______
```

Enter flight name: Fly Jet

```
ID : 3
Name : Fly Jet
Passengers: 56
------
What would you like to do?

[1] Append a flight
[2] Delete a flight
[3] Show all flights
[4] Exit

Enter your choice[1/2/3/4]: 4
[ Exiting ]
```