**FILE HANDLING 6**

**QUESTION:**

Write a function addrec() to add record of teacher in file “Teacher.dat”. Each record should contain the following data (using list):

Teacher Name

Teacher Designation

Teacher Salary

Also write a function searchrecord() to read and display the record of a particular teacher according to the name entered by the user from a file “Teacher.dat”, add a function countrecord() to count the number of records entered and updaterecord() to update a specific record’s information and also a function deleterecord() to delete a record from the list.

**CODE:**

import pickle

keys = ["itemNo", "itemName", "price"]

def addrec(itemNo, name, price):

with open("data.dat", "ab") as f:

pickle.dump(dict(zip(keys, [itemNo, name, price])), f)

def searchrecord(name):

with open("data.dat", "rb") as f:

while True:

try:

record = pickle.load(f)

if record['itemName'] == name:

print(record)

except EOFError:

break

def readrecord():

with open("data.dat", "rb") as f:

while True:

try:

record = pickle.load(f)

print(record)

except EOFError:

break

def countrecord():

with open("data.dat", "rb") as f:

count = 0

while True:

try:

rec = pickle.load(f)

count += 1

except EOFError:

break

return count

def updaterecord(itemname, changeKey, changeValue):

with open("data.dat", "rb") as f:

records = []

while True:

try:

record = pickle.load(f)

if record['itemName'] == itemname:

record[changeKey] = changeValue

records.append(record)

except EOFError:

break

with open("data.dat", "wb") as f:

for rec in records:

pickle.dump(rec, f)

def deleterecord(name):

with open("data.dat", "rb") as f:

records = []

while True:

try:

record = pickle.load(f)

if record['itemName'] != name:

records.append(record)

except EOFError:

break

with open("data.dat", "wb") as f:

for rec in records:

pickle.dump(rec, f)

while True:

print("1. Add Record\n2. Read and display record\n3. Search Record\n4. Update Record\n5. Count Record\n6. Delete Record\n7. Exit")

choice = int(input("Enter your choice: "))

if choice == 1:

name = input("Enter item name: ")

no = int(input('Enter item no: '))

price = int(input('Enter price: '))

addrec(no, name, price)

print()

elif choice == 2:

readrecord()

print()

elif choice == 3:

name = input("Enter item name: ")

searchrecord(name)

print()

elif choice == 4:

name = input("Enter item name: ")

choice = int(input("1. Update item no\n2. Update item name\n3. Update price\nEnter your choice: "))

changeValue = input('Enter new value: ')

updaterecord(name, keys[choice - 1], int(changeValue) if changeValue.isdigit() else changeValue)

print()

elif choice == 5:

print("Total records: ", countrecord())

print()

elif choice == 6:

name = input("Enter item name: ")

deleterecord(name)

print('Deleted record\n')

elif choice == 7:

break

else:

print("Invalid choice\n")

**OUTPUT**:

1. Add Record

2. Read and display record

3. Search Record

4. Update Record

5. Count Record

6. Delete Record

7. Exit

Enter your choice: 1

Enter item name: Keyboard

Enter item no: 1

Enter price: 100

1. Add Record

2. Read and display record

3. Search Record

4. Update Record

5. Count Record

6. Delete Record

7. Exit

Enter your choice: 2

{'itemNo': 1, 'itemName': 'Keyboard', 'price': 100}

1. Add Record

2. Read and display record

3. Search Record

4. Update Record

5. Count Record

6. Delete Record

7. Exit

Enter your choice: 3

Enter item name: Keyboard

{'itemNo': 1, 'itemName': 'Keyboard', 'price': 100}

1. Add Record

2. Read and display record

3. Search Record

4. Update Record

5. Count Record

6. Delete Record

7. Exit

Enter your choice: 4

Enter item name: Keyboard

1. Update item no

2. Update item name

3. Update price

Enter your choice: 1

Enter new value: 2

1. Add Record

2. Read and display record

3. Search Record

4. Update Record

5. Count Record

6. Delete Record

7. Exit

Enter your choice: 4

Enter item name: Keyboard

1. Update item no

2. Update item name

3. Update price

Enter your choice: 2

Enter new value: Mouse

1. Add Record

2. Read and display record

3. Search Record

4. Update Record

5. Count Record

6. Delete Record

7. Exit

Enter your choice: 4

Enter item name: Mouse

1. Update item no

2. Update item name

3. Update price

Enter your choice: 3

Enter new value: 200

1. Add Record

2. Read and display record

3. Search Record

4. Update Record

5. Count Record

6. Delete Record

7. Exit

Enter your choice: 5

Total records: 1

1. Add Record

2. Read and display record

3. Search Record

4. Update Record

5. Count Record

6. Delete Record

7. Exit

Enter your choice: 2

{'itemNo': 2, 'itemName': 'Mouse', 'price': 200}

1. Add Record

2. Read and display record

3. Search Record

4. Update Record

5. Count Record

6. Delete Record

7. Exit

Enter your choice: 6

Enter item name: Mouse

Deleted record

1. Add Record

2. Read and display record

3. Search Record

4. Update Record

5. Count Record

6. Delete Record

7. Exit

Enter your choice: 7