**QUESTION 5**

* **CODE :-**

import pickle

**# (a)**

def write():

f=open('hotel.dat','ab')

print("\n(a)")

d={}

d['roomno.']=int(input("Enter your Room Number: "))

d['name']=input("Enter your name: ")

d['duration']=int(input("Enter the number of days you stayed: "))

pickle.dump(d,f)

f.close()

**# (b)**

def read():

f=open("hotel.dat","rb")

print("\n(b) Details of customers:-")

while True:

try:

d=pickle.load(f)

print(d)

except EOFError:

f.close()

break

**# (c)**

def count():

c=0

f=open("hotel.dat",'rb')

while True:

try:

pickle.load(f)

c=c+1

except EOFError:

f.close()

break

print(f"\n(c) {c}")

**# (d)**

def customer():

f=open("hotel.dat","rb")

print("\n(d) Customers who stayed for more than 2 days are: ")

while True:

try:

d=pickle.load(f)

if d['duration']>2:

print(d)

except EOFError:

f.close()

break

def menu():

while True:

print("\n1. Enter the details of the customer.")

print("2. Display the details of the customer.")

print("3. Count the number of customers.")

print("4. Customers who have stayed in the hotel for more than 2 days.")

print("5. Exit")

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

if ch==1:

write()

elif ch==2:

read()

elif ch==3:

count()

elif ch==4:

customer()

elif ch==5:

print("\nProgram Ended Successfully.")

break

else:

print("Invalid Choice!")

menu()

* **OUTPUT :-**

1. Enter the details of the customer.

2. Display the details of the customer.

3. Count the number of customers.

4. Customers who have stayed in the hotel for more than 2 days.

5. Exit

Enter your choice: 1

(a)

Enter your Room Number: 113

Enter your name: Avinash

Enter the number of days you stayed: 3

1. Enter the details of the customer.

2. Display the details of the customer.

3. Count the number of customers.

4. Customers who have stayed in the hotel for more than 2 days.

5. Exit

Enter your choice: 1

(a)

Enter your Room Number: 114

Enter your name: Arvind

Enter the number of days you stayed: 2

1. Enter the details of the customer.

2. Display the details of the customer.

3. Count the number of customers.

4. Customers who have stayed in the hotel for more than 2 days.

5. Exit

Enter your choice: 2

(b) Details of customers:-

{'roomno.': 101, 'name': 'Aakar', 'duration': 3}

{'roomno.': 102, 'name': 'Virat', 'duration': 2}

{'roomno.': 103, 'name': 'Cristiano', 'duration': 1}

{'roomno.': 104, 'name': 'Lionel', 'duration': 1}

{'roomno.': 105, 'name': 'Rohit', 'duration': 1}

{'roomno.': 106, 'name': 'Salman', 'duration': 1}

{'roomno.': 107, 'name': 'Shahrukh', 'duration': 3}

{'roomno.': 108, 'name': 'Georgia', 'duration': 1}

{'roomno.': 109, 'name': 'Mamta', 'duration': 1}

{'roomno.': 110, 'name': 'Neymar', 'duration': 4}

{'roomno.': 111, 'name': 'Amitabh', 'duration': 4}

{'roomno.': 112, 'name': 'Harish Chandra', 'duration': 3}

{'roomno.': 113, 'name': 'Avinash', 'duration': 3}

{'roomno.': 114, 'name': 'Arvind', 'duration': 2}

1. Enter the details of the customer.

2. Display the details of the customer.

3. Count the number of customers.

4. Customers who have stayed in the hotel for more than 2 days.

5. Exit

Enter your choice: 3

(c) 14

1. Enter the details of the customer.

2. Display the details of the customer.

3. Count the number of customers.

4. Customers who have stayed in the hotel for more than 2 days.

5. Exit

Enter your choice: 4

(d) Customers who stayed for more than 2 days are:

{'roomno.': 101, 'name': 'Aakar', 'duration': 3}

{'roomno.': 107, 'name': 'Shahrukh', 'duration': 3}

{'roomno.': 110, 'name': 'Neymar', 'duration': 4}

{'roomno.': 111, 'name': 'Amitabh', 'duration': 4}

{'roomno.': 112, 'name': 'Harish Chandra', 'duration': 3}

{'roomno.': 113, 'name': 'Avinash', 'duration': 3}

1. Enter the details of the customer.

2. Display the details of the customer.

3. Count the number of customers.

4. Customers who have stayed in the hotel for more than 2 days.

5. Exit

Enter your choice: 5

Program Ended Successfully.