# Torism Management System

import os

import csv

from csv import DictWriter

from datetime import date

def cnic\_check(cnic):#Here we are making CNIC a unique ID

list = ["First Name", "Second Name", "Age", "Cnic number", "Mobile number","Booking Date",

"Destination Chargers","Resort Charges", "Transportation Charges", "Food Charges", "Total Bill"]

cnic\_search = cnic

x = False

with open('Record-Tourists.csv') as f:

DictReader\_obj = csv.DictReader(f)

for item in DictReader\_obj:

for key, val in item.items():#1st item is dictionary name 2nd one returning the key and values of the function

if key == "Cnic number":

if val == cnic\_search:

print("CNIC EXITS")

x = True

if x == True:

return x

else:

return x

def mobile\_number\_check(mobile\_number):

list = ["First Name", "Second Name", "Age", "Cnic number", "Mobile number","Booking Date", "Destination Chargers",

"Resort Charges", "Transportation Charges", "Food Charges", "Total Bill"]

mobile\_number\_search = mobile\_number

x = False

with open('Record-Tourists.csv') as f:

DictReader\_obj = csv.DictReader(f)

for item in DictReader\_obj:

for key, val in item.items():

if key == "Mobile number":

if val == mobile\_number\_search:

x = True

if x == True:

return x

else:

return x

def admin():

print("""

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\* ADMIN \*

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username = input("Username: ").lower() #User name is admin(can be in lowercase and upper cases)

password = input("Password: ") #Password is also admin(Strictly in lower case)

tries = 2

while (username != "admin") or (password != "admin"): #Check if username and password is wrong

while tries > 0:

if (username != "admin") or (password != "admin"):

print(f"""Wrong username or password. {tries} number of tries remain. Enter user name and password again""")

tries -= 1

username = input("Username: ")

password = input("Password: ")

if (username == "admin") and (password == "admin"):

print("Approved \n")

list = ["1.Add record", "2. View record", "3. Search record", "4. Returning back to the main menu"]

for i in list:

print(i)

option = input("Enter any serial number to choose the option. \n>")

if option == "1":

First\_name,Second\_name, age, cnic, mobile\_number = add\_record()

dest\_charges, resort\_charges, transportation\_charges, Food\_charges, total\_bill = packages()

billing(First\_name,Second\_name, age, cnic, mobile\_number, dest\_charges, resort\_charges, transportation\_charges,Food\_charges, total\_bill)

record\_saver\_tourists(First\_name,Second\_name, age, cnic, mobile\_number, dest\_charges, resort\_charges, transportation\_charges, Food\_charges, total\_bill)

if option =="2":

view\_record()

if option == "3":

search\_record()

if option == "4":

start()

else:

while not option.isdigit() or int(option) not in range(0,4):

option = input("Error! Please Enter any serial number to choose the option. \n>")

if option == "1":

First\_name,Second\_name, age, cnic, mobile\_number = add\_record()

dest\_charges, resort\_charges, transportation\_charges, Food\_charges, total\_bill = packages()

billing(First\_name,Second\_name, age, cnic, mobile\_number, dest\_charges, resort\_charges,transportation\_charges, Food\_charges, total\_bill)

record\_saver\_tourists(First\_name,Second\_name, age, cnic, mobile\_number, dest\_charges, resort\_charges,transportation\_charges, Food\_charges, total\_bill)

if option == "2":

view\_record()

if option == "3":

search\_record()

if option == "4":

start()

print("\nReached maximum number of tries. Program Ended.")

start()

if (username == "admin") and (password == "admin"):

list = ["1. View record", "2. Add record","3. Search record", "4. Returning back to main menu"]

for i in list:

print(i)

option = input("Please Enter any serial number to choose the option. \n>")

if option == "1":

view\_record()

if option == "2":

First\_name,Second\_name, age, cnic, mobile\_number = add\_record()

dest\_charges, resort\_charges, transportation\_charges, Food\_charges, total\_bill = packages()

billing(First\_name,Second\_name, age, cnic, mobile\_number, dest\_charges, resort\_charges, transportation\_charges, Food\_charges,total\_bill)

record\_saver\_tourists(First\_name,Second\_name, age, cnic, mobile\_number, dest\_charges, resort\_charges, transportation\_charges,Food\_charges, total\_bill)

if option == "3":

search\_record()

if option == "4":

start()

else:

while not option.isdigit() or int(option) not in range(0, 5):

option = input("Error! Please Enter any serial number to choose the option. \n>")

if option == "1":

view\_record()

if option == "2":

First\_name,Second\_name, age, cnic, mobile\_number = add\_record()

dest\_charges, resort\_charges, transportation\_charges, Food\_charges, total\_bill = packages()

billing(First\_name,Second\_name, age, cnic, mobile\_number, dest\_charges, resort\_charges, transportation\_charges,Food\_charges, total\_bill)

record\_saver\_tourists(First\_name,Second\_name, age, cnic, mobile\_number, dest\_charges, resort\_charges,transportation\_charges, Food\_charges, total\_bill)

if option == "3":

search\_record()

if option == "4":

start()

def tourist\_control():

list = ["1. Already Registered", "2. Apply for Registration "]

for i in list:

print(i)

option = input("Enter any of the above serial number. \n>")

while not option.isdigit() or int(option) not in range(1, 3):

option = input("Error! Please Enter any of the above serial number. \n>")

if option == "1":

mobile\_number = input("Enter your mobile numer: ")

while not mobile\_number.isdigit() or len(mobile\_number) != 11:

mobile\_number = input("Enter your mobile numer again: ")

if mobile\_number.isdigit() and len(mobile\_number) == 11:

p = mobile\_number\_ceck(mobile\_number)

if p == True:

print("Given access")

if p == False:

print("Mobile number didn't Exists Returning back to main menu")

start()

cnic = input("Enter your cnic: ")

while not cnic.isdigit() or len(cnic) != 13:

cnic = input("Enter your cnic again: ")

if cnic.isdigit() or len(cnic) == 13:

a = cnic\_check(cnic)

if a == True:

print("Given access")

if a == False:

print("CNIC didn't Exists Returning back to main menu")

start()

choices = ["1. View Record", "2. Search record", "3. Return back to the main Menu"]

for i in choices:

print(i)

select = input("Enter any of the above serial number. \n>")

while not select.isdigit() or int(select) not in range(1, 4):

select = input("Error! Please Enter any of the above serial number. \n>")

if select == "1":

view\_record()

if select == "2":

search\_record()

if select == "3":

print("Returning back to Main menu")

start()

if option == "2":

First\_name,Second\_name, age, cnic, mobile\_number = tourists()

dest\_charges, resort\_charges, transportation\_charges, Food\_charges, total\_bill = packages()

billing(First\_name,Second\_name, age, cnic, mobile\_number, dest\_charges, resort\_charges, transportation\_charges, Food\_charges,

total\_bill)

record\_saver\_tourists(First\_name,Second\_name, age, cnic, mobile\_number, dest\_charges, resort\_charges, transportation\_charges,

Food\_charges, total\_bill)

def tourists():

print("""

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\* \*

\* NEW TOURISTS \*

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First\_name = input("Enter your First name. \n>")

while not First\_name.isalpha(): # Check if digit is included in name

print("Invalid First Name")

First\_name = input("Please! Enter your First name again. \n>")

if not First\_name.isalpha():

print("Wrong Name. You are not allowed. Returning back to start menu\n")

start()

Second\_name = input("Enter your Second name. \n>")

while not Second\_name.isalpha(): # Check if digit is included in name

print("Invalid First Name")

Second\_name = input("Please! Enter your Second name again. \n>")

if not Second\_name.isalpha():

print("Wrong Name. You are not allowed. Returning back to start menu\n")

start()

cnic = input("Enter your 13 digit CNIC number. \n>")

if len(cnic) == 13:

p = cnic\_check(cnic)

if p == True:

print("CNIC EXISTS. PLEASE ENTER A NEW CNIC")

start()

while not cnic.isdigit(): # Check if alphabet is not included in name

cnic = input("Invalid CNIC number! Please Enter CNIC number again \n>")

if not cnic.isdigit():

print("Wrong Cnic. You are not allowed. Returning back to start menu\n")

start()

else:

p = cnic\_check(cnic)

if p == True:

print("CNIC EXISTS. PLEASE ENTER A NEW CNIC")

start()

while len(cnic) != 13: # Check if the CNIC have digits greater than or less than 13

cnic = input("Invalid CNIC number! Please Enter CNIC number again \n>")

if len(cnic) != 13:

print("Wrong CNIC. You are not allowed. Returning back to start menu\n")

start()

else:

p = cnic\_check(cnic)

if p == True:

print("CNIC EXISTS. PLEASE ENTER A NEW CNIC")

start()

age = input("Enter your age in digits. \n>") # Check if the age don't contain alphabets

while not age.isdigit():

age = input("Error! Enter your age in digits. \n>")

if not age.isdigit():

print("Wrong age. You are not allowed. Returning back to start menu\n")

start()

while int(age) < 18 or int(age) > 60: # Check if the age is not less than 18 year and greater than 60 year

age = input("Error! Enter your age and you must be 18 to 60 year old. \n>")

if int(age) < 18 or int(age) > 60:

print("Wrong age. You are not allowed. Returning back to start menu\n")

start()

mobile\_number = input("Enter your mobile number. \n>")

while not mobile\_number.isdigit():

mobile\_number = input("Invalid mobile number! Please Enter mobile number again \n>")

if not mobile\_number.isdigit():

print("Wrong mobile number. You are not allowed. Returning back to start menu\n")

start()

while len(mobile\_number) != 11: # Check if the number have less than or greater than 11 digits

mobile\_number = input("Invalid mobile number! Please Enter mobile number again \n>")

if len(mobile\_number) != 11:

print("Wrong mobile number. You are not allowed. Returning back to start menu\n")

start()

return First\_name, Second\_name, age, cnic, mobile\_number

def packages():

print("""

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\* \*

\* PACKAGES \*

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print("Our destinations points are: ")

Destinations = ["1. Murree", "2. Gilgit ", "3. Swat ", "4. Kashmir ", "5. Returning back to Main menu"]

for i in Destinations:

print(i) # Here printing the destinations

dest = input("Enter Serial Number of any of Destination point mentioned above: \n> ")

while dest == "5":

start()

while not dest.isdigit() or int(dest) not in range(1,6):#Here checking wether the user selecting the right serial number for destination or not

if not dest.isdigit() or int(dest) not in range(1, 6):

print("""We didn't get you. Sorry try again

1. Murree

2. Gilgit

3. Swat

4. Kashmir

5. Exit""")

dest = input("Invalid serial number!Enter Serial Number from 1 to 4: ")

while dest == "5":

start()

if dest == "1":

dest\_charges = 2000

if dest == "2":

dest\_charges = 5000

if dest == "3":

dest\_charges = 4000

if dest == "4":

dest\_charges = 3000

print("=" \* 150)

if int(dest) in range(1, 6):

if dest == "1" or dest == "2" or dest == "3" or dest == "4":

print("Our resorts are as following")

resort = ["1. Platinum resort", "2. Gold resort", "3. Silver resort", "4. Bronze resort", "5. Returning back to Main menu"]

for i in resort:

print(i)

resort = input("Select any of the above resort option. \n> ")

if resort == "5":

start()

while not resort.isdigit() or int(resort) not in range(1,6): # Here checking wether the user selecting the right serial number for resort or not

print("""We didn't get you.Sorry

1. Platinum resort

2. Gold resort

3. Silver resort

4. Bronze resort

5. Exit""")

resort = input("Select any of the above 5 options. ")

if resort == "5":

start()

if resort == "1":

resort\_charges = 20000

if resort == "2":

resort\_charges = 15000

if resort == "3":

resort\_charges = 10000

if resort == "4":

resort\_charges = 5000

if resort == "5":

start()

print("=" \* 150)

if int(dest) in range(1, 6):

if dest == "1" or dest == "2" or dest == "3" or dest == "4":

print("Our transportation are as following\n ")

transportation = ["1. Platinum transportation", "2. Gold transportation", "3. Silver transportation",

"4. Bronze transportation", "5. Returning back to Main menu"]

for i in transportation:

print(i)

transportation = input("Select any of the above transportation option. \n> ")

if transportation == "5":

start()

while not transportation.isdigit() or int(transportation) not in range(1,6):# Here checking wether the user selecting the right serial number for transportation or not

print("""We didnt get you.Sorry

1. Platinum transportation

2. Gold transportation

3. Silver transportation

4. Bronze transportation

5. Exit""")

transportation = input("Select any of the above transportation option. \n> ")

if transportation == "5":

start()

if transportation == "1":

transportation\_charges = 15000

if transportation == "2":

transportation\_charges = 10000

if transportation == "3":

transportation\_charges = 5000

if transportation == "4":

transportation\_charges = 2000

print("=" \* 150)

if int(dest) in range(1, 6):

if dest == "1" or dest == "2" or dest == "3" or dest == "4":

print("Our Food are as following\n ")

Food = ["1. Category.A Food", "2. Category.B Food", "3. Category.C Food", "4. Category.D Food", "5. Returning back to Main menu"]

for i in Food:

print(i)

Food = input("Select any of the above Food option. \n>")

if Food == "5":

start()

while not Food.isdigit() or int(Food) not in range(1,6): # Here checking wether the user selecting the right serial number for Food or not

print("""We didn't get you.Sorry

1. Category.A Food

2. Category.B Food

3. Category.C Food

4. Category.D Food

5. Exit""")

Food = input("Select any of the above 5 options. \n>")

if Food == "5":

start()

if Food == "1":

Food\_charges = 15000

if Food == "2":

Food\_charges = 10000

if Food == "3":

Food\_charges = 5000

if Food == "4":

Food\_charges = 2000

print("=" \* 150)

total\_bill = dest\_charges + resort\_charges + transportation\_charges + Food\_charges

return dest\_charges, resort\_charges, transportation\_charges, Food\_charges, total\_bill

def billing(First\_name,Second\_name, age, cnic, mobile\_number, dest\_charges, resort\_charges, transportation\_charges,

Food\_charges, total\_bill):

print("""

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\* \*

\* BILLING \*

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*""")

print(f"""

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\* CHARGES AND TOTAL BILL \*

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Name: {First\_name} {Second\_name}

Age: {age}

Mobile Number: {mobile\_number}

Cnic: {cnic}

Destination Charges: {dest\_charges}

Resort Charges: {resort\_charges}

Transportation Charges: {transportation\_charges}

Food Charges: {Food\_charges}

Total\_bill = {total\_bill}

Note: We accept cash only. Good Luck

""")

def Exit():

print("Are you Sure You don't want to travel with us.")

Exit = ["1. Yes", "2. No"]

for i in Exit:

print(i)

option = input("Choose any of the above serial number. \n>")

while not option.isdigit()or int(option) not in range(1,3):#Here checking wether the user selecting the right serial number for option or not

print("""Wrong option. Please try again

1. Yes

2. No""")

option = input("Error! Choose any of the above serial number. \n>")

if option == "1":

print("Take care. Good Bye")

if option == "2":

start()

def add\_record():

print("""

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\* \*

\* WELCOME ADMIN \*

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First\_name = input("Enter your First name. \n>")

while not First\_name.isalpha(): # Check if digit is included in name

print("Invalid First Name")

First\_name = input("Please! Enter your First name again. \n>")

if not First\_name.isalpha():

print("Wrong Name. You are not allowed. Returning back to start menu\n")

start()

Second\_name = input("Enter your Second name. \n>")

while not Second\_name.isalpha(): # Check if digit is included in name

print("Invalid First Name")

Second\_name = input("Please! Enter your Second name again. \n>")

if not Second\_name.isalpha():

print("Wrong Name. You are not allowed. Returning back to start menu\n")

start()

cnic = input("Enter 13 digit CNIC number. \n>")

if len(cnic) == 13:

p = cnic\_check(cnic)

if p == True:

print("CNIC EXISTS. PLEASE ENTER A NEW CNIC")

start()

while not cnic.isdigit(): # Check if alphabet is not included in name

cnic = input("Invalid CNIC number! Please Enter CNIC number again \n>")

if not cnic.isdigit():

print("Wrong Cnic. You are not allowed. Returning back to start menu\n")

start()

else:

p = cnic\_check(cnic)

if p == True:

print("CNIC EXISTS. PLEASE ENTER A NEW CNIC")

start()

while len(cnic) != 13: # Check if the CNIC have digits greater than or less than 13

cnic = input("Invalid CNIC number! Please Enter CNIC number again \n>")

if len(cnic) != 13:

print("Wrong CNIC. You are not allowed. Returning back to start menu\n")

start()

else:

p = cnic\_check(cnic)

if p == True:

print("CNIC EXISTS. PLEASE ENTER A NEW CNIC")

start()

age = input("Enter age in digits. \n>") # Check if the age don't contain alphabets

while not age.isdigit():

age = input("Error! Enter your age in digits. \n>")

if not age.isdigit():

print("Wrong age. You are not allowed. Returning back to start menu\n")

start()

while int(age) < 18 or int(age) > 60: # Check if the age is not less than 18 year and greater than 60 year

age = input("Error! Enter your age and you must be 18 to 60 year old. \n>")

if int(age) < 18 or int(age) > 60:

print("Wrong age. You are not allowed. Returning back to start menu\n")

start()

mobile\_number = input("Enter your mobile number. \n>")

while not mobile\_number.isdigit():

mobile\_number = input("Invalid mobile number! Please Enter mobile number again \n>")

if not mobile\_number.isdigit():

print("Wrong mobile number. You are not allowed. Returning back to start menu\n")

start()

while len(mobile\_number) != 11: # Check if the number have less than or greater than 11 digits

mobile\_number = input("Invalid mobile number! Please Enter mobile number again \n>")

if len(mobile\_number) != 11:

print("Wrong mobile number. You are not allowed. Returning back to start menu\n")

start()

return First\_name,Second\_name, age, cnic, mobile\_number

def record\_saver\_tourists(First\_name,Second\_name, age, cnic, mobile, dest\_charges, resort\_charges, transportation\_charges,Food\_charges, total\_bill):

path = os.getcwd()#Current working diectory # it find the the location of the python file

if os.path.exists(path + "/" + "Record-Tourists.csv"):#Here we are chechking if the CSV file exist it just gonna append values in the desire keys

f\_names = ["First Name", "Second Name", "Age", "Cnic number", "Mobile number",

"Booking Date", "Destination Chargers",

"Resort Charges", "Transportation Charges", "Food Charges",

"Total Bill"]

today = date.today()

dated = today.strftime("%B %d, %Y")#string fomart time # setting the format of the date we are getting in varaible today

record\_tourist = {'First Name': First\_name, 'Second Name': Second\_name, 'Age': age, 'Cnic number': cnic, 'Mobile number': mobile,

'Booking Date': dated,

'Destination Chargers': dest\_charges, 'Resort Charges': resort\_charges,

'Transportation Charges': transportation\_charges,

'Food Charges': Food\_charges, 'Total Bill': total\_bill}

with open("Record-Tourists.csv", 'a+') as write\_obj:

dict\_writer = DictWriter(write\_obj, fieldnames=f\_names)

dict\_writer.writerow(record\_tourist)

else:

f\_names = ["First Name", "Second Name", "Age", "Cnic number", "Mobile number",

"Booking Date", "Destination Chargers",

"Resort Charges", "Transportation Charges", "Food Charges",

"Total Bill"]

today = date.today()

dated = today.strftime("%B %d, %Y")#string fomart time

record\_tourist = [{'First Name': First\_name, 'Second Name': Second\_name, 'Age': age, 'Cnic number': cnic, 'Mobile number': mobile, 'Booking Date': dated,

'Destination Chargers': dest\_charges, 'Resort Charges': resort\_charges,

'Transportation Charges': transportation\_charges, 'Food Charges': Food\_charges,

'Total Bill': total\_bill}]

with open('./Record-Tourists.csv', 'a+') as csvfile:

writer = csv.DictWriter(csvfile, fieldnames=f\_names)

writer.writeheader()#Making columns of the of csv file

writer.writerows(record\_tourist)

start()

def view\_record():

list = ["First Name", "Second Name", "Age", "Cnic number", "Mobile number",

"Booking Date", "Destination Chargers", "Resort Charges",

"Transportation Charges", "Food Charges", "Total Bill"]

with open('Record-Tourists.csv') as f:

DictReader\_obj = csv.DictReader(f)

for item in DictReader\_obj:

for i in list:

print(i, ":", item[i], end=", ")

print("\n")

start()

def search\_record():

list = ["First Name", "Second Name", "Age", "Cnic number", "Mobile number", "Booking Date", "Destination Chargers", "Resort Charges",

"Transportation Charges", "Food Charges", "Total Bill"]

x = input(""" Please enter serial number of search method

1. CNIC

2. First Name

3. Mobile number \n> """)

while not x.isdigit() or int(x) not in range(1, 4):

x = input(""" Error! Please enter serial number of search method

1. CNIC

2. First Name

3. Mobile number \n> """)

if x == "1":

cinc\_search = input("Enter CNIC: ")

while not cinc\_search.isdigit() or not len(cinc\_search) == 13:

cinc\_search = input("Enter CNIC again: ")

x = False

with open('Record-Tourists.csv') as f:

DictReader\_obj = csv.DictReader(f)

for item in DictReader\_obj:

list1 = []

list2 = []

for key, val in item.items():

list1.append(key)

list2.append(val)

if key == "Cnic number":

x = False

if val == cinc\_search:

x = True

if x == True:

for i in range(0, len(list1)):

print(list1[i], ":", list2[i], end=', ')

if x != True:

print("No Record found")

if x == "2":

name\_search = input("Enter name: ")

while not name\_search.isalpha():

name\_search = input("Enter name again: ")

x = False

with open('Record-Tourists.csv') as f:

DictReader\_obj = csv.DictReader(f)

for item in DictReader\_obj:

list1 = []

list2 = []

for key, val in item.items():

list1.append(key)

list2.append(val)

if key == "First Name":

x = False

if val == name\_search:

x = True

if x == True:

for i in range(0, len(list1)):

print(list1[i], ":", list2[i], end=', ')

if x != True:

print("No Record found")

if x == "3":

mobile\_number = input("Enter Mobile Number: ")

while not mobile\_number.isdigit() or not len(mobile\_number) == 11:

mobile\_number = input("Enter Mobile Number again: ")

x = False

with open('Record-Tourists.csv') as f:

DictReader\_obj = csv.DictReader(f)

for item in DictReader\_obj:

list1 = []

list2 = []

for key, val in item.items():

list1.append(key)

list2.append(val)

if key == "Mobile number":

x = False

if val == mobile\_number:

x = True

if x == True:

for i in range(0, len(list1)):

print(list1[i], ":", list2[i], end=', ')

if x != True:

print("No Record found")

start()

def end():

print("""

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* \*

\* Sorry Program Ended Due to Invalid inputs \*

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def start():

print("""

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\* \*

\* TOURISM MANAGEMENT SYSTEM \*

\* BY ATA-UL-HAQ \*

\* AYESHA HISSAM \*

\* SHAZMIN NASIR \*

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""")

print("Welcome To Nature Tourists \n ")

print("Choose if you want to login as")

choose= ["1. Admin", "2. Tourists", "3. Refreshing the screen"]

for i in choose:

print(i)

choose= input("Choose any of the above options. \n>")

while not choose.isdigit() or int(choose) not in range(1,4):

print("Invalid serial number")

choose = input("Enter Serial Number of the option mentioned above: ")

if choose == "1":

admin()

if choose == "2":

tourist\_control()

if choose== "3":

start()

start()