Day 26 of DevOps class

Agenda – Write a code using a dictionary type and loop concept.

In this code, we are taking the concept as a bus ticket booking for n number of passengers and we need to get output as passenger’s details after the user provides the complete details of the passenger

Code:

import re  
  
num\_passengers = int(input("Enter the numbers of passengers: "))  
  
passengers = []  
  
#i =1;  
  
for i in range(num\_passengers):  
 print("\nEnter details for the passenger: ", i+1)  
  
 username = input("Enter your username: ")  
 first\_name = input("Enter your first name: ")  
 second\_name = input("Enter your second name: ")  
 age = int(input("Enter your age: "))  
 gender = str(input("Enter your gender Male/Female: "))  
  
 if age > 18:  
 user\_type = "Adult"  
 elif age < 5:  
 user\_type = "Child"  
 else:  
 user\_type = "Minor"  
 # Validate the mobile number  
  
 mobile = input('Enter a Mobile number :')  
 # Taking user input  
 a = re.fullmatch('[6-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9]', mobile)  
 # calling fullmatch function by passing pattern and n  
 if a != None: # checked the number is valid or not  
 print('This is a valid mobile number')  
 else:  
 print('This is not a valid mobile number')  
  
 distance = float(input("Enter the distance from source to destination (in KM): "))  
  
 if distance > 750:  
 fare = distance \* 3  
 elif distance > 500:  
 fare = distance \* 2  
 else:  
 fare = 500  
  
 passenger\_details = {  
 'username': username,  
 'first\_name': first\_name,  
 'second\_name': second\_name,  
 'age': age,  
 'gender': gender,  
 'user\_type': user\_type,  
 'mobile': mobile,  
 'distance': distance,  
 'fare': fare  
 }  
 passengers.append(passenger\_details)  
  
#n = len(passengers)  
  
#i = 0  
for passenger in passengers:  
 print("Passenger details")  
 for key, value in passenger.items():  
 print(f"{key}:{value}")

INPUT:

Enter the numbers of passengers: 2

Enter details for the passenger: 1

Enter your username: kir

Enter your first name: kiran

Enter your second name: meher

Enter your age: 33

Enter your gender Male/Female: male

Enter a Mobile number :9988776655

This is a valid mobile number

Enter the distance from source to destination (in KM): 752

Enter details for the passenger: 2

Enter your username: said

Enter your first name: sai

Enter your second name: varma

Enter your age: 25

Enter your gender Male/Female: male

Enter a Mobile number :9988776655

This is a valid mobile number

Enter the distance from source to destination (in KM): 752

OUTPUT:

Passenger details

username:kir

first\_name:kiran

second\_name:meher

age:33

gender:male

user\_type:Adult

mobile:9988776655

distance:752.0

fare:2256.0

Passenger details

username:said

first\_name:sai

second\_name:varma

age:25

gender:male

user\_type:Adult

mobile:9988776655

distance:752.0

fare:2256.0