Q 1. Create a JSON file (employee.json) containing employee information of minimum 5 employees. Each employee information consists of Name, DOB, Height, City, State. Write a python program that reads this information from the JSON file and saves the information into a list of objects of Employee class. Finally print the list of the Employee objects.

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JSON CODE : { "employee": [
                   "id": "01",
                   "name": "Amit",
                  "DOB": "23-09-1997",
                   "Height": "5'7",
                  "City": "Hassan",
                   "State": "Karnataka"
               },
                   "id": "02",
                   "name": "sunil",
                   "DOB": "20-06-199",
                  "Height": "5'9",
                   "City": "Mangalore",
                   "State": "Karnataka"
               },
                   "id": "03",
                   "name": "Arun",
                   "DOB": "13-10-1997",
                   "Height": "5'1",
                   "City": "Bangalore",
                   "State": "Karnataka"
                  "id": "04",
                   "name": "Kavitha",
                   "DOB": "30-01-1999",
                   "Height": "5'3",
                   "City": "Hubli",
                   "State": "Karnataka"
               },
                  "id": "05",
                   "name": "renita",
                   "DOB": "12-04-1991",
                   "Height": "5'5",
                  "City": "davangere",
                  "State": "Karnataka"
               }
         ]}
 In [3]: import json
         f = open('C:/Users/admin/OneDrive/Desktop/Pruthvi/Employee_json.json',)
         data = json.load(f)
         for i in data['employee']:
             print(i)
         f.close()
         {'id': '01', 'name': 'Amit', 'DOB': '23-09-1997', 'Height': "5'7", 'City': 'Hassan', 'State': 'Karnataka'}
         {'id': '02', 'name': 'sunil', 'DOB': '20-06-199', 'Height': "5'9", 'City': 'Mangalore', 'State': 'Karnataka'}
         {'id': '03', 'name': 'Arun', 'DOB': '13-10-1997', 'Height': "5'1", 'City': 'Bangalore', 'State': 'Karnataka'}
         {'id': '04', 'name': 'Kavitha', 'DOB': '30-01-1999', 'Height': "5'3", 'City': 'Hubli', 'State': 'Karnataka'}
         {'id': '05', 'name': 'renita', 'DOB': '12-04-1991', 'Height': "5'5", 'City': 'davangere', 'State': 'Karnataka'}
         Q 2.Create a dictionary of any 7 Indian states and their capitals. Write this into a JSON file.
In [34]: # import json
         states = '{"Andhra Pradesh": "Amaravati", "Gujarat": "Gandhinagar", "Karnataka": "Bangalore", "Maharashtra": "Mumbai", "Tamil Nadu": "Chennai", "Uttarakhand": "Dehradun", "Odisha": "Bhubaneswal
         type(states)
         states_dict = json.loads(states)
         print(states_dict)
         {'Andhra Pradesh': 'Amaravati', 'Gujarat': 'Gandhinagar', 'Karnataka': 'Bangalore', 'Maharashtra': 'Mumbai', 'Tamil Nadu': 'Chennai', 'Uttarakhand': 'Dehradun', 'Odisha': 'Bhubanes
         war'}
         Assignment 2: Q 1.Create a class named 'Dog'. It should have a constructor which accepts its name, age and coat color. You must perform the following operations: a. It should have a function 'description()' which prints the
         name and age of the dog. b. It should have a function 'get_info()' which prints the coat color of the dog. c. Create child classes 'JackRussellTerrier' and 'Bulldog' which is inherited from the class 'Dog'. It should have at least
         two methods of its own. d. Create objects and implement the above functionalities.
In [33]: class dog :
             def __init__(self,name,age,color):
                 self.name = name
                 self.age =age
                 self.color = color
             def description(self):
                 print("name of the dog :", self.name)
                 print("age of the dog :", self.age)
             def get_info(self):
                 print("color of the dog :", self.color)
         class JackRussellTerrier(dog):
             def __init__(self, name, age, color, gender, owner):
                 super().__init__(name,age,color)
                 self.owner = owner
                 self.gender = gender
             def display_owner(self):
                 print("owner name of the dog :", self.owner)
             def display_gender(self):
                 print("gender of the dog : ", self.gender)
         class bulldog(dog):
             def __init__(self, name, age, color, gender, owner):
                 super().__init__(name,age,color)
                 self.owner = owner
                 self.gender =gender
             def display_owner(self):
                 print("owner name of the dog :", self.owner)
             def display_gender(self):
                 print("gender of the dog : ", self.gender)
         inp1=input("Enter the name of the dog:")
         inp2 =int(input("enter the age of the dog:"))
         inp3 = input("enter the color of the dog:")
         inp4 = input("Enter the owner name of the dog :")
         inp5 = input("Enter the gender of the dog:")
         jack=JackRussellTerrier(inp1,inp2,inp3,inp4,inp5)
         print("-----")
         jack.description()
         jack.get_info()
         jack.display_owner()
         jack.display_gender()
         inp8=input("Enter the name of the dog:")
         inp9 =int(input("enter the age of the dog:"))
         inp10 = input("enter the color of the dog:")
         inp11 = input("Enter the owner name of the dog :")
         inp12 = input("Enter the gender of the dog:")
         bull=bulldog(inp8,inp9,inp10,inp11,inp12)
         print("----")
         bull.description()
         bull.get_info()
         bull.display_owner()
         bull.display_gender()
         Enter the name of the dog:Blacky
         enter the age of the dog:12
         enter the color of the dog:black
         Enter the owner name of the dog :pruthv
         Enter the gender of the dog:male
         -----JackRussellTerrier-----
         name of the dog : Blacky
         age of the dog : 12
         color of the dog : black
         owner name of the dog : male
         gender of the dog : pruthv
         Enter the name of the dog:tiger
         enter the age of the dog:3
         enter the color of the dog:white
         Enter the owner name of the dog :poorva
         Enter the gender of the dog:male
```

-----BULLDOG-----

name of the dog : tiger age of the dog : 3

color of the dog : white
owner name of the dog : male
gender of the dog : poorva