SUNBEAM INSTITUTE OF INFORMATION
TECHNOLOGY
KARAD
OOP with Java
Module End Lab Exam

Course Name:	PG – DAC	**Batch :**	Aug 2024
Module Name:	OOP with Java	**Date:**	04/11/2024
Max. Marks:	40	**Duration :**	2:00 Hours

Instructions :

1. Create **new workspace (folder)** by the name **OOP_12 digit PRN** in your home directory.
2. Create **new Project** with name **OOP_12 digit PRN**.
3. After evaluation, first compress/zip your folder (named OOP_12 digit PRN) and upload it on EMIS.

Evaluation of Lab Exam should be based on the following criteria :

Sr. No.	Points to cover	Tick Mark by student	Max Marks	Marks by Evaluator
	Self-declaration for Paper Code – A			
1.	POJO classes	☐	8	
2.	Menu driven	☐	4	
3.	Add New Person	☐	4	
4.	Display All Persons	☐	4	
5.	Find by Name	☐	4	
6.	Save in File	☐	5	
7.	Load from File	☐	5	
8.	Display in Sorted Order of District	☐	3	
9.	Display in Sorted Order of Name	☐	3	
		Total :	**40**	_____

_____   _____
Signature of Student   **Signature of Evaluator**

Question :

1. **Create a POJO class Address with fields area (String), district (String), and pin (int).**
2. **Create another POJO class Person with fields name (String), birthDate (java.util.Date), homeAddr (Address).**

You may write additional methods in these classes as required.

In main(), identify suitable collection to store person information.

Write a menu driven program for the operations.
1. Add new person.
2. Display all persons.
3. Find by name.
4. Save in file.
5. Load from file.
6. Display in sorted order of District.
7. Display in sorted order of Name.

Notes:
A. Person with same name should not be added.
B. Display should display people in order of insertion.
C. Find by name should be done using appropriate collection method.
  It should only display message, found or not found.
D. Save in file should be done using serialization.
E. Load from file should get data back into the collection.
F. All resources should be closed properly.
G. Dates should be **Accepted** and **Displayed** in **dd/MM/yyyy** format.