**PGDBDA Java Lab Exam**

1. Write a console-based Java application for a company to manage employee details.

There are two types of employees – Full Time Employee (FTE), Part Time Employee (PTE)

Application captures following details for each employee whether FTE or PTE:

Name, Date of joining, Phone Number, Aadhaar number

For FTE, monthly salary is also captured.

For PTE, hourly payment amount is also captured.

Single collection class is used to store both FTE and PTE

Input should be validated before entering into the system:

* Emp Id should be auto generated and unique for each employee.
* Date of joining should be of type LocalDate and in format like 26-Dec-2021 for example
* Phone number should be all numeric and of length 10, 12 or 13

(Example: 9812345678, 919812345678, +919812345678 are valid phone numbers)

* Aadhaar number should be all numeric and of length 12 only, there should not be any space in between. Two employees cannot have same aadhaar number

**Application Menu:**

1. Add full time employee
2. Add part time employee
3. Delete an employee by Emp Id
4. Search employee details by Aadhaar number
5. Display all employee details
6. Display all employee details sorted by date of joining
7. Exit

**Implementation & Marks bifurcation**

1. Creating class hierarchy – Employee, FTE, PTE and required Exception classes **[3 Marks]**
2. Menu creation, using suitable collection class for storing employees **[3 Marks]**
3. Add FTE **[3 Marks]**
4. Add PTE **[3 Marks]**
5. Delete Employee **[3 Marks]**
6. Search Employee **[3 Marks]**
7. Display all employees **[3 Marks]**
8. Display all employees sorted by date of joining **[4 Marks]**
9. Emp Id auto generation **[3 Marks]**
10. Validating user input
    1. Date of joining **[4 Marks]**
    2. Phone number **[4 Marks]**
    3. Aadhaar number **[4 Marks]**