



Lab 3

Course Name: OOP

Course Code: CSE 203

Student's Full Name:

Student ID:

Question 1. CD Store

Create an application in Java, which can be used to manage the CD catalogue in real time.

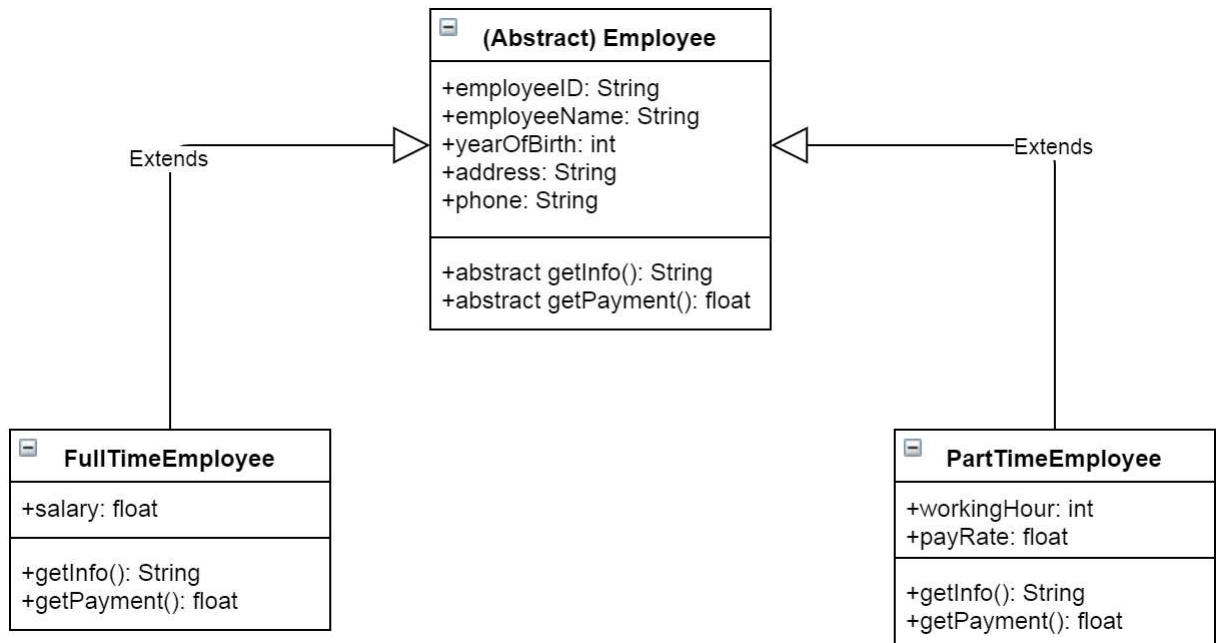
The details of the CD it accepts are: CD Id, CD collection (game/movie/music), CD type (audio or video), Title, Price and year of release.

The application initially displays a menu with the following options.

1. Add CD (ArrayList)
 2. Search CD by CD title
 3. Search CDs by collection (game/movie/music)
 4. Search CDs by type (audio/video)
 5. Delete CD by CD Id
 6. Edit CD information by Id
 7. Display all CDs
 8. Sort the CD list ascending by year of release
 9. Exit
- The id of a CD cannot be edited.

Question 2. HR management

Create an application in Java, which can be used to manage Employees in a company.
You will need three main entities class as follow:



The application initially displays a menu with the following options.

1. Add Full-time Employee (ArrayList)
 2. Add Part-time Employee (ArrayList)
 3. Show all Full-time Employee
 4. Show all Part-time Employee
 5. Show all Employee
 6. Search Employee by Id
 7. Delete Employee by Id
 8. Edit Employee information by Id
 9. Search Employee by payment
 10. Sort Full-time Employee and Part-Time employee in ascending order by age, payment.
 11. Exit
- The id of an employee cannot be edited.
 - The payment of an employee will be calculated as:
 - Full-time Employee equals to the salary
 - Part-time Employee equals to (workingHour * payRate)
 - Function 9th : user will input a range of payment (from, to) for the search

Submitted: github link (public) and all source code (*.rar file) submitted to moodle.