Davis Arita

11/23/2022

CS 131 Lecture 13A group assignment

Example on a class in Library Management System:

|  |
| --- |
| **Book** |
| **Data members:**  ISBN Title Author  **Operations:**  getISBN() getTitle() getAuthor() setISBN() setTitle() setAuthor() |

|  |
| --- |
| **Librarian** |
| **Data members:**  Name  Salary  Age  Position  **Operations:**  getName()  setLab()  getSalary()  setSalary()  getAge()  setAge()  getPosition()  setPosition() |

|  |
| --- |
| **DVD** |
| **Data members:**  Director  RunTime  Actors  RentalTime()  **Operations:**  getName()  getSalary()  setSalary()  getRunTime()  setRuntime()  addActor()  removeActor()  getRentalTime()  setRentalTime() |

|  |
| --- |
| **Member** |
| **Data members:**  Name  LateFees  Address  BooksOut  **Operations:**  getName()  setName()  getAddress()  setAddress()  getBooksOut()  checkOutBook()  getLateFee()  addLateFee()  removeLateFee() |

AirLine

|  |
| --- |
| **Employee** |
| **Data members:**  Name  Salary  Age  Company  Hours  **Operations:**  getName()  setName()  getSalary()  setSalary()  payRaise()  getAge()  setAge()  getCompany()  setCompany()  getHours()  setHours()  changeHours() |

|  |
| --- |
| **Pilot** |
| **Data members:**  Name  Salary  Age  Rank  Company  **Operations:**  getName()  setName()  getSalary()  setSalary()  payRaise()  promotion()  getAge()  setAge()  getRank()  setRank()  getCompany()  setCompany() |

|  |
| --- |
| **Plane** |
| **Data members:**  TailNumber  FuelCapacity  FlightRange  ModelNum  CountryOfOrigin  Company  **Operations:**  getTailNum()  setTailNum()  getFuelCapacity()  setFuelCapacity()  getFlightRange()  setFlightRange()  getModelNum()  setModelNum()  getCountryOfOrigin()  setCountryOfOrigin()  getCompany()  setCompany() |

|  |
| --- |
| **Route** |
| **Data members:**  Origin  Destination  Distance  TimeToTravel  **Operations:**  getOrigin()  setOrigin()  getDestination()  setDestination()  getDistance()  setDistance()  getTimeToTravel()  setTimeToTravel() |