Due: September 13, Thursday, **5:00 pm** (zero credit if late turn-in)

Write Java programs as follows:

- Design a class named **Person** and its two subclasses named **Student** and **Employee**. Make **Faculty** and **Staff** subclasses of **Employee**. All instance variables (states) must be declared as **private**.
  - **Person** class
    - has a **name** and an **email** address
  - **Student** class
    - has a **class status** (freshman, sophomore, junior, or senior). Define the status as a constant.
    - has a **gpa** (grade point average).
  - **Employee** class
    - has an **office** (office number, e.g., MCS132) and **salary.**
  - **Faculty** class
    - has a **rank** (professor, associate professor, assistant professor, lecturer). Define the rank as a constant.
  - **Staff** class
    - has a title; e.g., secretary, manager, …
- Override **toString()** method in each class to display all the states (including inherited) of the object:
  - e.g., the states of Staff object: name, email, office, salary, title
  - e.g., the states of Student object: name, email, class status, gpa.
- Write **Quiz06** class to test classes defined above:
  - Define an array of Person with 6 elements
  - Create two Student objects with some initial values of the states, and store them into the array.
  - Create two Faculty objects with some initial values, and store them into the array.
  - Create two Staff objects with some initial values, and store them into the array.
  - Using polymorphism, display states of all objects in the array.

Turn-in: Submit programs via D2L,

1. Create a folder named **quiz06**. Do this outside NetBeans.
2. Copy all java programs into quiz06 folder.
3. Compress quiz06 folder.
4. Submit quiz06.zip via D2L.

Grading Policy:

- Similar to previous ones.