The goal of this exercise is to test your Javaknowledge. Your task is to create a simple CRUD application that can read, create, update or delete data. Your application(s) will keep track of school activites.

**Task 1:**

**Requirements:**

* Create an object called Student
* You must be able to CRUD(**C**reate, **R**ead, **U**pdate, **D**elete) a student
* Create 5 students that are available from start of the application
* Student objects can only have int and String data types.
* Must implement error handling

Example:

Menu

1. View Student

2. Add Student

3. Update Student

4. Delete Student

5. Exit

Enter your choice: 1

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1. Cristiano Ronaldo

2. Lionel Messi

3. Kylian Mbappe

4. Erling Haaland

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Menu

1. View Student

2. Add Student

3. Update Student

4. Delete Student

5. Exit

Enter your choice: 2

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1. Cristiano Ronaldo

2. Lionel Messi

3. Kylian Mbappe

4. Erling Haaland

5. Exit

Enter the id want to delete: 4

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1. Cristiano Ronaldo

2. Lionel Messi

3. Kylian Mbappe

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Menu

1. View Student

2. Add Student

3. Update Student

4. Delete Student

5. Exit

Enter your choice: 3

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1. Cristiano Ronaldo

2. Lionel Messi

3. Kylian Mbappe

4. Exit

Enter the id want to update: 1

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Change the name to: LeBron James

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1. LeBron James

2. Lionel Messi

3. Kylian Mbappe

4. Exit

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Menu

1. View Student

2. Add Student

3. Update Student

4. Delete Student

5. Exit

Enter your choice: 2

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Add a new student: Roger Federer

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1. LeBron James

2. Lionel Messi

3. Kylian Mbappe

4. Roger Federer

5. Exit

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Menu

1. View Student

2. Add Student

3. Update Student

4. Delete Student

5. Exit

Enter your choice: 2

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Thank you and goodbye!

The example doesn’t have to be the same but it must have the same functionalities.

**Task 2:**

**Requirements:**

* The application must contain 3 entities. Students, Teacher, Subject.
* 1 teacher, 1 or more students, and 1 subject. The main focus will be on the subjects.
* You must be able to CRUD (create, read, update, delete) all 3 main entities.
* You must implement error handling for input classes.
* Teacher and Students act the same way as in Task 1.
* The subject contains data about what who is teaching that call and what students are attending the class.
* You can any data type you like.
* Create at least 3 methods with different parameters.

Example:

Menu

1. View Subject

2. Add Subject

3. Update Subject

4. Delete Subject

5. Exit

Enter your choice: 1

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Teacher:

Kobe Bryant

Students:

1. LeBron James

2. Lionel Messi

3. Kylian Mbappe

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Menu

1. View Subject

2. Add teacher and/or students

3. Update teacher and/or students

4. Delete teacher and/or students

5. Exit

Enter your choice: 2

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Add new teacher: Luka Modric

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Add new student: Manuel Neuer

Add more students (Yes/No)?

No

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Menu

1. View Subject

2. Add teacher and/or students

3. Update teacher and/or students

4. Delete teacher and/or students

5. Exit

Enter your choice: 3

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Update teacher (Yes/No)?

No

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Update students (Yes/No)?

Yes

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Students:

1. LeBron James

2. Lionel Messi

3. Kylian Mbappe

Enter your choice: 3

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Updated name: Fernando Torres

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Students:

1. LeBron James

2. Lionel Messi

3. Kylian Mbappe

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Menu

1. View Subject

2. Add teacher and/or students

3. Update teacher and/or students

4. Delete teacher and/or students

5. Exit

Enter your choice: 2

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The example doesn’t have to be the same but it must have the same functionalities. For example, you don’t have to update both teacher and student. You can add another choice where you can pick what do you want to update.

Try using different methods. With static/without static, with return/without return, return as boolean/int/String, etc.