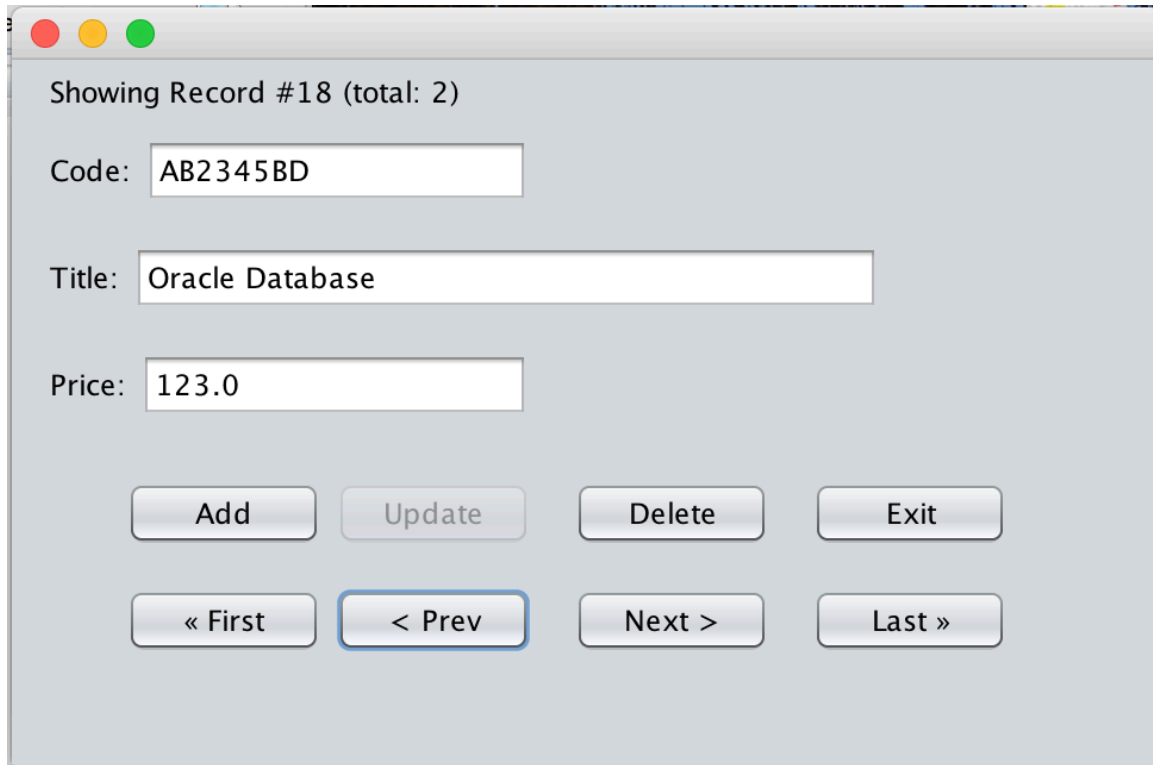
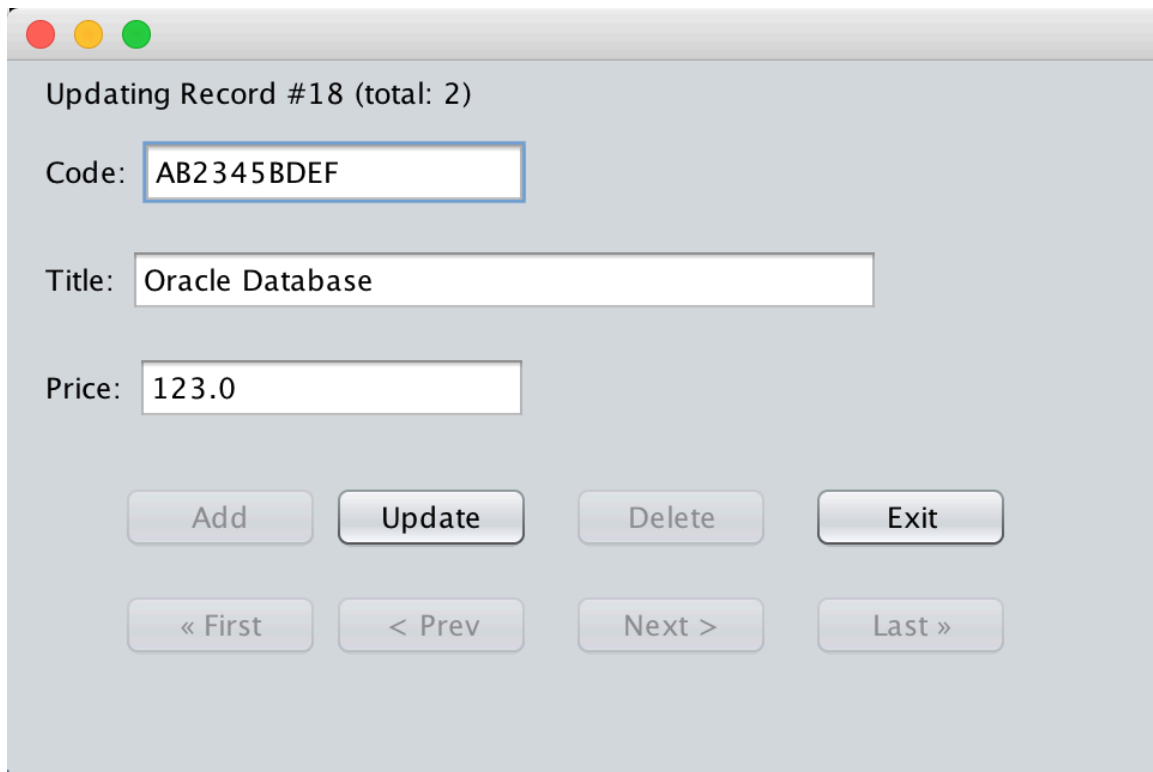


1 – Program starts and retrieves first Record. Update button is disabled.



The screenshot shows a window titled "Showing Record #18 (total: 2)". It contains three text input fields: "Code:" with the value "AB2345BD", "Title:" with the value "Oracle Database", and "Price:" with the value "123.0". Below these fields are two rows of buttons. The first row contains "Add", "Update", "Delete", and "Exit". The "Update" button is disabled (grayed out). The second row contains "« First", "< Prev", "Next >", and "Last »". The "< Prev" button is highlighted with a blue border, indicating it is the active or selected button.

2- User starts typing and Update button is enabled. All other buttons, but exit are disabled.



Updating Record #18 (total: 2)

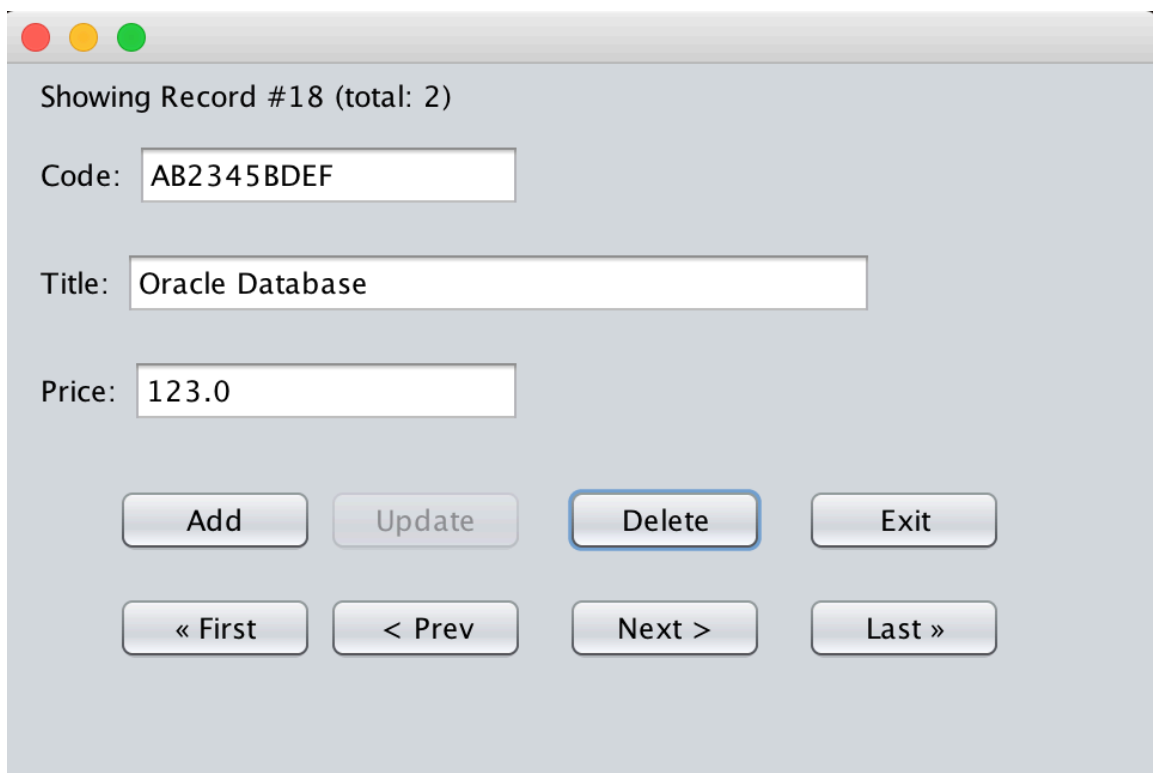
Code:

Title:

Price:

This screenshot shows a window titled "Updating Record #18 (total: 2)". It contains three text input fields: "Code" with the value "AB2345BDEF", "Title" with the value "Oracle Database", and "Price" with the value "123.0". Below the inputs are two rows of buttons. The first row contains "Add", "Update", "Delete", and "Exit". The second row contains "« First", "< Prev", "Next >", and "Last »". The "Update" button is highlighted with a blue border.

3- Hitting "update" updates that record. As soon as it updates it disables the update button and enables the others.



Showing Record #18 (total: 2)

Code:

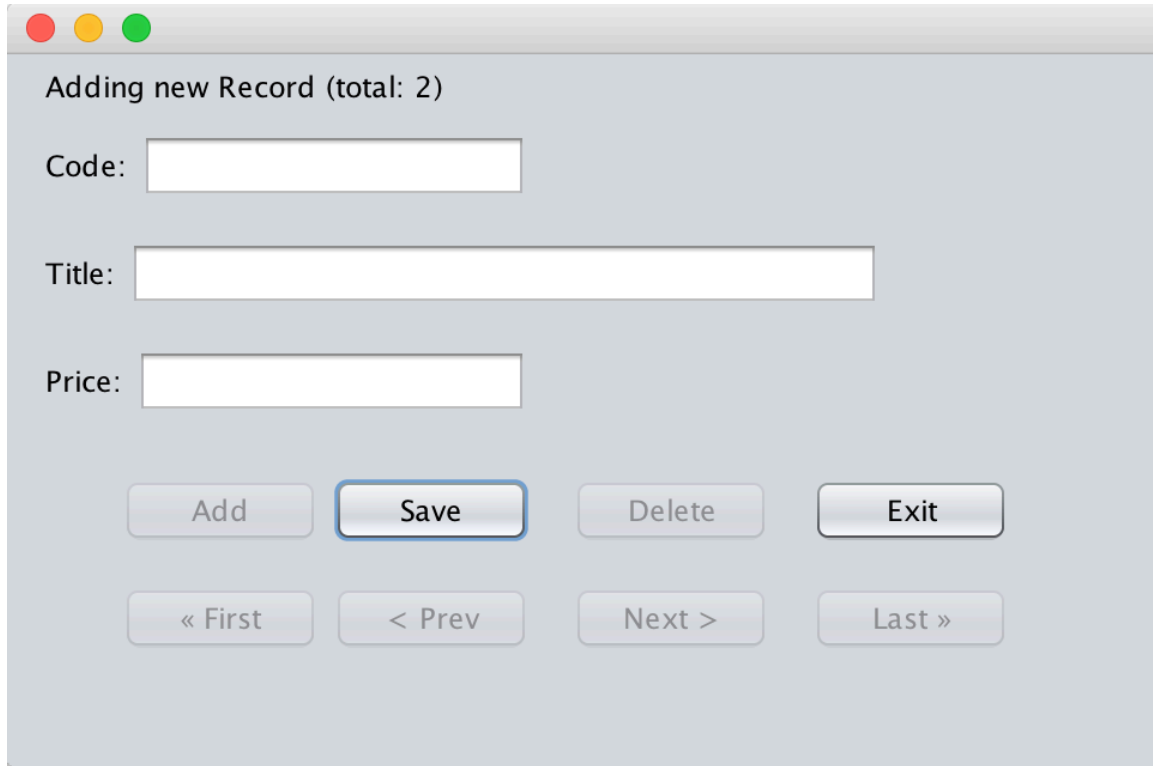
Title:

Price:

This screenshot shows the same window after the "Update" button was clicked. The title bar now says "Showing Record #18 (total: 2)". The "Update" button is now disabled (grayed out), and the "Delete" button is highlighted with a blue border, indicating it is now enabled.

4- To add a new record, hit “add”. It will clear the fields for a new insert. Enable the update button (for this case I changed the name to save because it makes more sense). Record added to the end.

4.1



The screenshot shows a web application window with a light gray background and a standard macOS-style title bar with red, yellow, and green window control buttons. The window title is "Adding new Record (total: 2)". Below the title, there are three input fields: "Code:" with a short text box, "Title:" with a longer text box, and "Price:" with a text box. At the bottom of the window, there are two rows of buttons. The first row contains "Add", "Save" (which is highlighted with a blue border), "Delete", and "Exit". The second row contains "« First", "< Prev", "Next >", and "Last »".

4.2

Adding new Record (total: 2)

Code: BDE012

Title: Programming with Java

Price: 456

Buttons: Add, Save, Delete, Exit, « First, < Prev, Next >, Last »

This screenshot shows a Java Swing window with a light gray background. At the top, there are three gray circular window control buttons. The title bar area is white. The main content area has a light gray background. The text 'Adding new Record (total: 2)' is displayed at the top. Below it, there are three text input fields: 'Code' with the value 'BDE012', 'Title' with the value 'Programming with Java', and 'Price' with the value '456'. At the bottom, there are two rows of buttons. The first row contains 'Add', 'Save', 'Delete', and 'Exit'. The second row contains '« First', '< Prev', 'Next >', and 'Last »'. All buttons have a light gray background and a thin black border.

4.3

Showing Record #18 (total: 3)

Code: AB2345BDEF

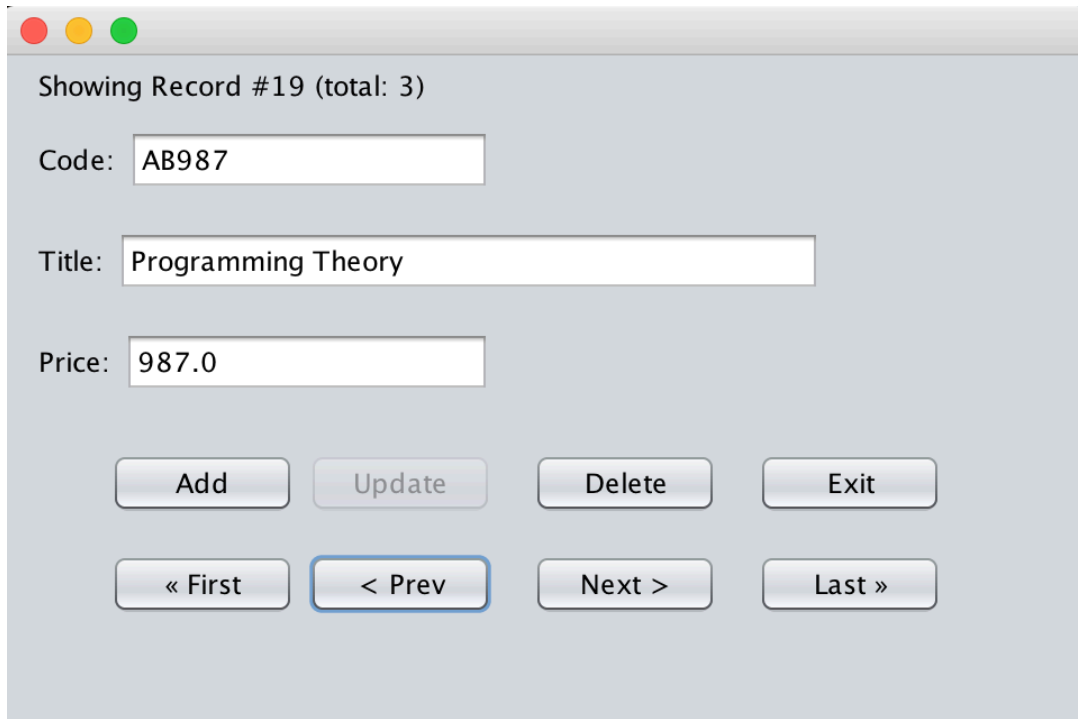
Title: Oracle Database

Price: 123.0

Buttons: Add, Update, Delete, Exit, « First, < Prev, Next >, Last »

This screenshot shows a Java Swing window with a light gray background. At the top, there are three colored circular window control buttons (red, yellow, green). The title bar area is white. The main content area has a light gray background. The text 'Showing Record #18 (total: 3)' is displayed at the top. Below it, there are three text input fields: 'Code' with the value 'AB2345BDEF', 'Title' with the value 'Oracle Database', and 'Price' with the value '123.0'. At the bottom, there are two rows of buttons. The first row contains 'Add', 'Update', 'Delete', and 'Exit'. The second row contains '« First', '< Prev', 'Next >', and 'Last »'. All buttons have a light gray background and a thin black border. The 'Delete' button in the first row is highlighted with a blue border.

5- Hitting “previous” displays the previous record.



A screenshot of a software window titled "Showing Record #19 (total: 3)". The window has a light gray background and a standard macOS-style title bar with red, yellow, and green window control buttons. It contains three text input fields: "Code:" with the value "AB987", "Title:" with the value "Programming Theory", and "Price:" with the value "987.0". Below these fields are two rows of buttons. The first row contains "Add", "Update", "Delete", and "Exit". The second row contains "« First", "< Prev", "Next >", and "Last »". The "< Prev" button is highlighted with a blue border, indicating it is the active or selected button.

Showing Record #19 (total: 3)

Code: AB987

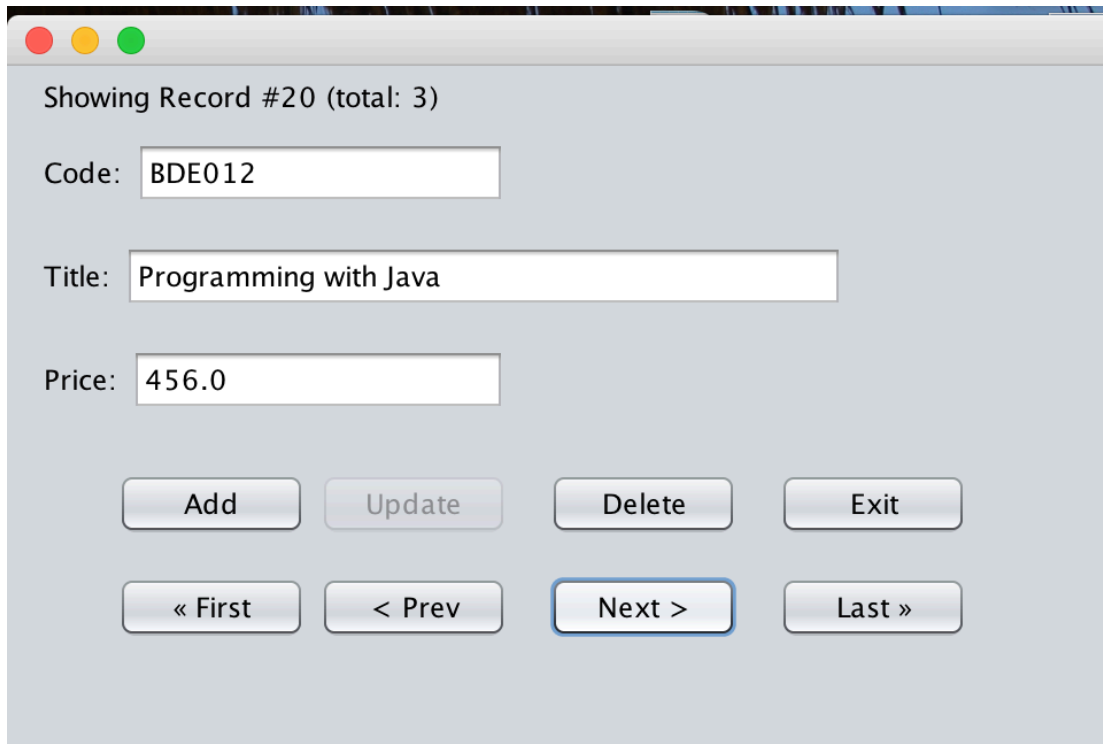
Title: Programming Theory

Price: 987.0

Add Update Delete Exit

« First < Prev Next > Last »

6- Hitting “next” displays the next record.



A screenshot of the same software window, now titled "Showing Record #20 (total: 3)". The data in the input fields has changed: "Code:" is "BDE012", "Title:" is "Programming with Java", and "Price:" is "456.0". The buttons remain the same. In this screenshot, the "Next >" button in the second row is highlighted with a blue border, indicating it is the active or selected button.

Showing Record #20 (total: 3)

Code: BDE012

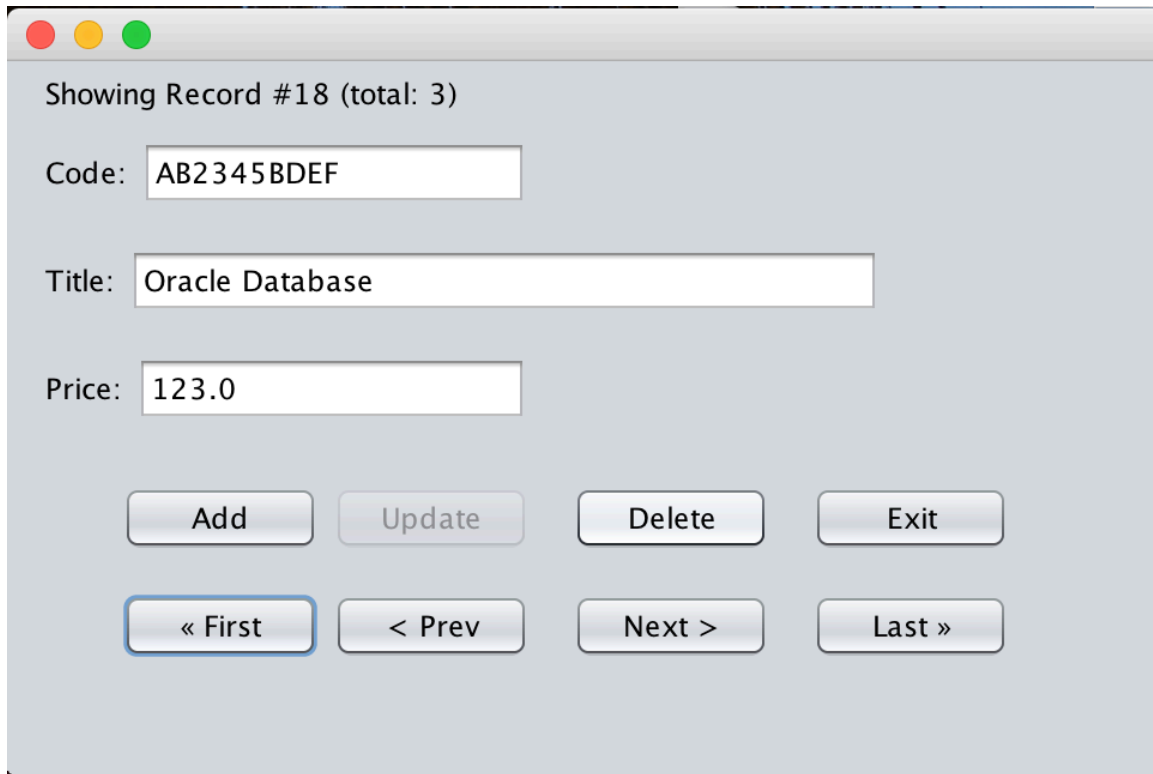
Title: Programming with Java

Price: 456.0

Add Update Delete Exit

« First < Prev Next > Last »

7- Hitting “first” displays the first record.



Showing Record #18 (total: 3)

Code:

Title:

Price:

8- Hitting “last” displays the last record.

A screenshot of a graphical user interface for a record management system. The window has a title bar with three colored buttons (red, yellow, green). The main content area is light gray. At the top, it says "Showing Record #20 (total: 3)". Below this are three input fields: "Code:" with the value "BDE012", "Title:" with the value "Programming with Java", and "Price:" with the value "456.0". At the bottom, there are two rows of buttons. The first row contains "Add", "Update", "Delete", and "Exit". The second row contains "« First", "< Prev", "Next >", and "Last »". The "Last »" button is highlighted with a blue border.

Showing Record #20 (total: 3)

Code: BDE012

Title: Programming with Java

Price: 456.0

Add Update Delete Exit

« First < Prev Next > Last »

9- Hitting “delete” deletes a record. Image shows that record # 20 was deleted and there are only 2 records available: 18 and 19. After it deletes the record from the file or database, the program displays the data for the next record (or the new last record if the deleted record was the last record).

Showing Record #19 (total: 2)

Code:

Title:

Price:

10- Hitting "exit" exits program.

11- Pluses: program won't show errors if you keep going previous and reached first. It won't show errors if the user presses next and reaches last and tries to hit next again. Same thing with the delete function.