

Generating Equals() and hashCode()

`public boolean equals(Object obj):`

This method returns `true`, if an object passed to it as an argument is equal to the object on which this method is invoked.

`public int hashCode():`

This method returns the integer hash code value for the object on which this method is invoked.

To generate equals() and hashCode() methods

1. On the main menu, choose **Code | Generate**. Alternatively, right-click the editor and choose **Generate** on the context menu, or use **Alt+Insert** keyboard shortcut.
2. In the pop-up list that is displayed in the editor, select **equals() and hashCode()** option. Generate equals() and hashCode() wizard displays the list of fields in the class.
3. On the first page of the wizard, select the fields that should be used to determine equality, and click **Next**.
4. On the second page, select the fields to generate hash code.

Note that only the fields that were included in the `equals()` method, can participate in creating hash code. All these fields are selected by default, but you can unselect them, if necessary.

Click **Next**.

5. On the third page of the wizard, select the fields that contain non-null values. This optional step help the generated code avoid check for null and thus improves performance. Click **Finish**.

If `equals()` and `hashCode()` methods already exist in class, you will be prompted to delete them before proceeding.

Example

```
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null
        || getClass() != o.getClass()) return false;
    FixedRateCurrencyExchangeService that = (FixedRateCurrencyExchangeService) o;
    if (Double.compare(that.rate, rate) != 0) return false;
    return true;
}

public int hashCode() {
    long temp = rate != +0.0d ? Double.doubleToLongBits(rate) : 0L;
    return
        int (temp ^ (temp >>> 32));
}
```

See Also

Reference:

- [Generate Equals\(\) and hashCode\(\) Wizard](#)

Web Resources:

- [Developer Community](#) 