

## 2) Object class

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- The object class is the root (superclass) of all Java classes.
- Every Java class implicitly inherits from Object.
  - It is located in the `java.lang` package.
  - Provides essential methods common to all objects.

### (i) Overrideable Methods of Object Class

#### (a) `toString()`

- Returns a String representation of the object.
- Default implementation returns `className@hashCodeHex`.

#### Syntax

```
public String toString() { }
```

#### (b) `equals(Object obj)`

- Compares the current object with another for logical equality.
- Default behavior checks reference equality (`==`).
  - Should be overridden to compare object contents.

#### Syntax

```
public boolean equals(Object obj) { }
```

#### (c) `hashCode()`

- Returns an integer hash code value for the object.

#### Syntax

```
public int hashCode() { }
```

// There are more, you can visit  
to Java documentation.