

13 Lecture - CS506

Important Mcqs

Certainly, here are 10 multiple-choice questions (MCQs) related to Adapter Classes, along with their solutions and multiple options:

****Question 1: What is the purpose of an Adapter Class in Java?***

- a) To connect different classes in an application
- b) To provide default implementations for interfaces
- c) To handle database connections
- d) To manage exceptions in a program

****Solution: b) To provide default implementations for interfaces****

****Question 2: Adapter classes are often used in which type of programming in Java?***

- a) Event handling
- b) Networking
- c) Multithreading
- d) File I/O

****Solution: a) Event handling****

****Question 3: Which Java interface can be extended using an Adapter class for handling mouse events?***

- a) ActionListener
- b) MouseListener
- c) KeyListener
- d) WindowListener

****Solution: b) MouseListener****

****Question 4: What is the main benefit of using an Adapter class for event handling in Java?****

- a) It simplifies database connections
- b) It reduces the need for interfaces
- c) It provides default implementations, allowing developers to override only necessary methods
- d) It automatically handles exceptions

****Solution: c) It provides default implementations, allowing developers to override only necessary methods****

****Question 5: Which Adapter class is commonly used for handling window-related events in Java?****

- a) WindowAdapter
- b) ActionListenerAdapter
- c) MouseAdapter
- d) KeyAdapter

****Solution: a) WindowAdapter****

****Question 6: Which Adapter class can be extended for handling focus-related events in Java?****

- a) FocusListenerAdapter
- b) MouseAdapter
- c) ActionListenerAdapter
- d) FocusAdapter

****Solution: d) FocusAdapter****

****Question 7: In Java, Adapter classes are part of which package?*****

- a) java.util
- b) java.io
- c) java.awt
- d) javax.swing

****Solution: c) java.awt****

****Question 8: When using an Adapter class, which methods are overridden by the developer?***

- a) All methods defined in the interface
- b) Only the methods defined in the Adapter class
- c) Only the methods needed for the specific application
- d) No methods need to be overridden

****Solution: c) Only the methods needed for the specific application****

****Question 9: Which event handling mechanism often benefits from the use of Adapter classes?***

- a) Network events
- b) File I/O events
- c) GUI events
- d) Database events

****Solution: c) GUI events****

****Question 10: What is the purpose of creating custom Adapter classes in Java?***

- a) To override all methods of a given interface
- b) To provide unique default implementations for interfaces
- c) To extend the functionality of built-in classes
- d) To eliminate the need for interfaces in event handling

****Solution: b) To provide unique default implementations for interfaces****