

CS23304 JAVA PROGRAMMING

Course Instructor: V P Jayachitra

WEEK 4

Instruction:

- Use meaningful variable names
- Consistent indentation
- Proper error handling
- Proper comment to follow the question requirement

Constructor, this and static concept practice

1. Demonstrate automatic default constructor behavior when no constructors are defined
2. Show the impact of defining single and multiple parameterized constructors on default constructor availability
3. Practice resolving naming conflicts between parameters and instance variables and Practice calling current class methods and variables
4. Practice passing class object and return class object using this
5. Implement constructor chaining to reuse constructor logic
6. Create static methods that can be called without object instantiation. Also demonstrate the difference between class-level and object-level data
7. Practice static initialization blocks and demonstrate Static Method Restrictions: Cannot access instance variables directly and cannot call instance methods directly
8. Create private and public static nested classes for internal and external access. Demonstrate access control differences between private and public nested classes.
9. Create private and public inner classes for internal and external access. Demonstrate access control differences between private and public inner classes.

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10. Linked List with private Static Nested Node Class. Do add node, delete node, display and search data operations on the linked list