Kentucky CTE

Computer Science: JAVA Programming I 110205 (2026–2027)

Design, develop, compile, debug, test, run, and document programs in the Java language using a software development kit. 1	1 Design, develop, compile, debug, test, run, and document programs in the Java language using a software development kit. 1
Design and develop programs using operators and assignments. 2	2 Design and develop programs using operators and assignments. 2
Design and develop programs using primitive data types. 3	3 Design and develop programs using primitive data types. 3
Design and develop programs using sequence, selection, and repetition structures. 4	4 Design and develop programs using sequence, selection, and repetition structures. 4
Design and develop programs using single and multi-dimensional arrays. 5	5 Design and develop programs using single and multi-dimensional arrays. 5
Design and develop programs using effective error and exception handling. 6	6 Design and develop programs using effective error and exception handling. 6
De pr oriented programming	)esign and develop programs using object-oriented programming features, ncluding defining classes, instantiating objects, and using arrays of objects. 7

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features, including defining classes, instantiating objects, and using arrays of objects. 7	
Design and develop programs implementing user-defined methods and modular programming. 8	8 Design and develop programs implementing user-defined methods and modular programming. 8
Design and develop programs using method overloading. 9	9 Design and develop programs using method overloading. 9
Design and develop programs using inheritance, encapsulation, and polymorphism. 10	10 Design and develop programs using inheritance, encapsulation, and polymorphism. 10
Design and develop GUI interfaces for Java applications. 11	11 Design and develop GUI interfaces for Java applications. 11
Evaluate and critique the effectiveness and efficiency of code. 12	12 Evaluate and critique the effectiveness and efficiency of code. 12