

1. What is jagged array? Write a java program to initialize and display jagged array element with sum of each row.
 2. What are uses of this keyword? Write a java program to implement method overloading concept.
 3. Why inheritance is needed in java? How will you implement multiple inheritance using interface? Explain with program.
 4. What is multithreading? Explain with program how you will create thread by implementing runnable interface and extending Thread class.
 5. What are exception handling keyword in java? Write java program to illustrate the concept of NullPointerException and NumberFormatException.
 6. What is serialization? Write a java program to write three student information (Roll, Name, Address, College) into file student.txt and display the student information whose address is Jhapa.
 7. What is Wrapper class? Explain with program, how will you use iterator and comparator in collection objects?
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1. How AWT is differing from Swing? Write a GUI program using components to find factorial and cube of number. Use TextField for giving input and Label for output. The program should display factorial if user press mouse on result button and cube if user release mouse from result button.
 2. What is JDBC? Write a java program to connect database Company and insert 5 employee record (EID, Ename, Salary, Department) in Employee table and display the employee record who's Department is "Sales".