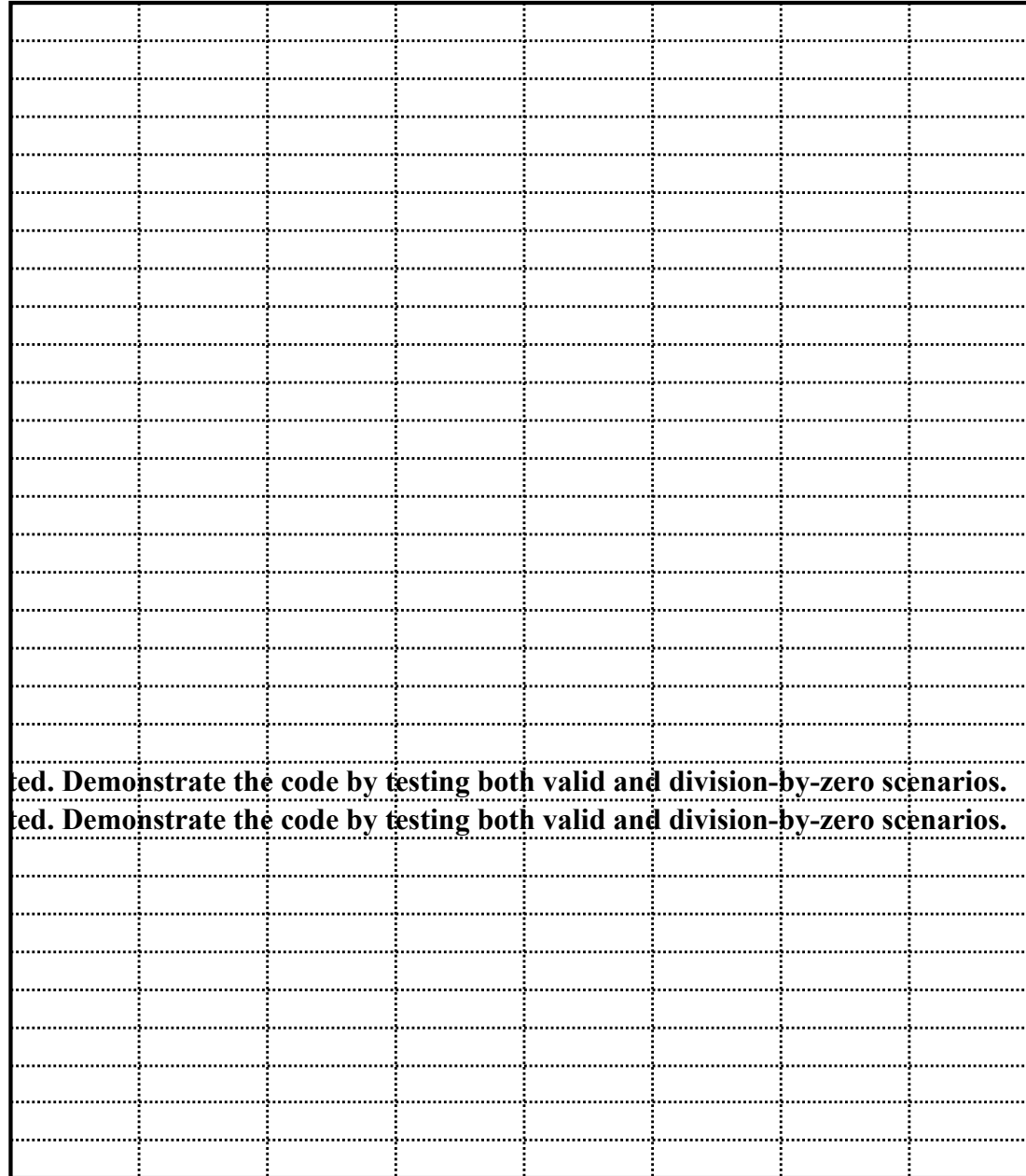


<b>Explain the four fundamental principles of Object-Oriented Programming. How do these principles enhance software development?</b>
<b>Discuss the concept of classes and objects in OOP. How do they relate to each other, and how do they form the foundation of object-oriented d</b>
<b>What is inheritance in Object-Oriented Programming? Describe the different types of inheritance with examples.</b>
<b>Write a java program to create own exception for NegativeValueException if the user enter negative value.</b>
<b>Write a java program to create two threads and execute simultaneously.</b>
<b>Write a java program to print basic calculator.</b>
<b>Write a java program to print the 2nd highest element in an array by taking user input.</b>
<b>Write a java program to check wheather a Year is Leap Year or Not.</b>
<b>Write a Java program to accept user input using command-line arguments and calculate the sum of two integer numbers.</b>
<b>Write a Java program that creates a class Shape with methods to calculate the area of different shapes (circle, square, and rectangle) using me</b>
<b>Write a Java program to implement multiple inheritance using interfaces and demonstrate how methods from multiple interfaces can be acces</b>
<b>Write a Java program to create an interface and extend it to another interface, then implement the extended interface in a class to demonstrat</b>
<b>Write a Java program to create a class with a method that accepts an object as a parameter and returns an object. Demonstrate this with appi</b>
<b>Write a Java program to implement an abstract class "Appliance" with an abstract method turnOn(). Create subclasses "Fan" and "TV" tha</b>
<b>Write a Java program to create an abstract class "Employee" with an abstract method calculateSalary(). Implement subclasses "FullTimeEm</b>
<b>Write a Java program to demonstrate the use of the super keyword to call a parent class method.</b>
<b>Write a Java program to show how a subclass constructor calls the superclass constructor using super().</b>
<b>Write a Java program to create a simple abstract class with one abstract method and implement it in a subclass.</b>
<b>Write a Java program to demonstrate method overriding in a parent and child class.</b>
<b>Write a Java program to create an interface with one method and implement it in a class.</b>
<b>Implement a Java method that performs division of two integers provided by the user. In the try block, execute the division and catch an Aritl</b>
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<b>Write a Java program that demonstrates single inheritance using a base class Animal and a derived class Dog.</b>
<b>Write a Java program that demonstrates multilevel inheritance using base class Animal, derived class Dog, and subclass BabyDog.</b>
<b>Write a Java program that demonstrates hierarchical inheritance where two different classes (Dog and Cat) inherit from a single superclass A</b>
<b>Write a Java program that demonstrates multiple inheritance using interfaces.</b>
<b>Write a Java program that demonstrates constructor overloading with different parameterized constructors in a class Student.</b>
<b>Write an abstract class Vehicle with an abstract method start(). Create two subclasses Car and Bike that implement the start() method. Instan</b>
<b>Define user-defined methods for the following: without argument and without return type, with argument/s and without return type, with argument/s and</b>
<b>Write a java program to check whether a number is Palindrome or Not?</b>
<b>Write a java program to reverse an user input array.</b>



ted. Demonstrate the code by testing both valid and division-by-zero scenarios.  
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<b>What is synchronization? How many types? Explain.</b>	.....
<b>Write a java program to find the factorial value of the given number using user defined package concept</b>	.....
<b>What is a Data Type? How to declare variable in Java.</b>	.....
<b>Is switch better than if-else-if (if yes justify)?</b>	.....
<b>What are Layout Managers in java? Explain.</b>	.....
<b>List out any 10 AWT classes and their syntax.</b>	.....
<b>What is a collection class? Explain.</b>	.....
<b>Write a Java program to implement a simple calculator using methods for addition, subtraction, multiplication, and division.</b>	.....
<b>Write a Java program to find the factorial of a given number using a for loop.</b>	.....
<b>Write a Java program to demonstrate method overloading with at least two different methods having the same name but different parameters</b>	.....
<b>Write a Java program to show how to use the final keyword with a class and method to prevent inheritance and overriding.</b>	.....
<b>Write a Java program to implement multilevel inheritance and show how methods from different levels of the hierarchy are called.</b>	.....
<b>Write a Java program to implement method overriding using a superclass and subclass with the same method signature.</b>	.....
<b>Write a Java program to take user input for different data types (int, float, double, String) using the Scanner class and display them.</b>	.....
<b>Write a Java program to demonstrate the use of static variables by creating multiple objects of a class where a counter variable is incremented</b>	.....
<b>Write a Java program to show how an abstract class can have both abstract and non-abstract methods.</b>	.....
<b>Write a Java program to demonstrate multilevel inheritance and show how constructors are executed from parent to child.</b>	.....
<b>Write a Java program to implement hierarchical inheritance where multiple subclasses inherit from a single parent class and override a meth</b>	.....