Hands-on Assignments for Abstract Classes

Complete the below hands-on assignments before proceeding with the next Topic

No.	Hands-on Assignment	Topics Covered	Status
1	Create a class called GeneralBank that acts as base class for all banks. This class has getSavingsInterestRate and getFixedDepositInterestRate methods, which returns the savings account interest rate and fixed deposit account interest rate that the specific bank gives. Since GeneralBank cannot say what percentage which bank would give, make these methods abstract.	Abstract Classes	
	Create two subclasses of GeneralBank called ICICIBank and KotMBank. Override the inherited methods from the base class. The following are the interest rates of these banks. ICICIBank - Savings 4% Fixed 8.5% and KotMBank - Savings 6% Fixed 9%.		
	Create a main method to test the above classes and their methods. Try one by one and observe your findings		
	a) ICICIBank i=new ICICIBank();		
	b) KotMBank k=new KotMBank();		
	c) GeneralBank g=new KotMBank();		
	d) GeneralBank g=new ICICIBank();		
2	Create an abstract class Compartment to represent a rail coach. Provide an abstract function notice in this class. public abstract String notice(); Derive FirstClass, Ladies, General, Luggage classes from the compartment class. Override the notice function in each of them to print notice message that is suitable to the specific type of compartment. Create a class TestCompartment.Write main function to do the following: Declare an array of Compartment of size 10. Create a compartment of a type as decided by a randomly generated integer in the range 1 to 4. Check the polymorphic behavior of the notice method. [i.e based on the random number genererated, the first compartment can be Luggage, the second one could be Ladies and so on]	Abstract Classes	