Question:- I

class TaxCalculator

{  
 public static double taxableAmount(double monthlySalary)

{

Tax must be calculated for Annual Salary

//should return annual taxable amount

}

}

Slabs :-

1. 1 to 2,50,000 no tax
2. 2,50,001 to 5,00,000 10% tax
3. 5,00,001 to 10,00,000 20% tax
4. 10,00,0001 and above 30% tax

Question :II

class Account

{

int accountNumber;

String accountHolderName;

LocalDate openedDate;

double balance;

// provide all constructors , setters , getters and validation methods

// always balance must not be less than 5000 Rs.

}

class Transaction

{  
 public static double deposit(Account account , double amount)

{

Must add amount to account object balance and return updated balance.

}

public static double withdraw(Account account , double amount) throws InsufficientBalanceException

{  
 if account object balance – amount is less than 5000 then Exception should be thrown.

}

}

Question : III

abstract class Shape

{  
 abstract double area();

}

class Circle extends Shape

{

private double radius;

//provide parameterized constructor.

//override area() ;

}

class Rectangle extends Shape

{

private double length,breadth;

//provide parameterized constructor

// override area() ;

}

class ShapesFactory

{

ArrayList<Shape> slist = new ArrayList<>(); //to store Circle and Rectangle objects.

public ShapesFactory() { }

public void addShape(Shape s)

{

Should add Circle Objects / Rectangle Objects to the slist property.

}

public List<Circle> getCircles()

{

Should return list of Circle Objects from slist property.

}

public List<Rectangle> geRectangles()

{

Should return list of Rectangle Objects from slist property.

}

public boolean deleteShape(Shape s)

{

If given Shape I,e. Circle/Rectangle object if should delete and return true

If not found should return false

}

}