HIRECHICAL PROGRAM

class ArithmeticOperation {

void add(int a, int b)

{

System.out.println("Addition: " + (a + b));

}

void subtract(int a, int b)

{

System.out.println("Subtraction: " + (a - b));

}

}

class MultiplicationOperation extends ArithmeticOperation {

void multiply(int a, int b)

{

System.out.println("Multiplication: " + (a \* b));

}

}

class DivisionOperation extends ArithmeticOperation {

void divide(int a, int b) {

if (b != 0)

{

System.out.println("Division: " + (a / (double)b));

}

else {

System.out.println("Error: Division by zero");

}

}

}

public class HierachicalInheritance{

public static void main(String[] args)

{

MultiplicationOperation multiplication = new MultiplicationOperation();

DivisionOperation division = new DivisionOperation();

multiplication.add(89, 8);

multiplication.subtract(58, 7);

multiplication.multiply(66,25);

division.add(54,25);

division.subtract(68,95);

division.divide(90,4);

}

}

OUTPUT:

