Week – 10

Practice Assignment

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| Q. 1 | Write a Java program to define numberToWords with one int parameter named number.   1. The method should print out the passed number using words for the digits. 2. If the number is negative, print "Invalid Value".   Test Example:  numberToWords(123);  output: onetwothree |
| Q. 2 | Pool Area  The Swimming Company has asked you to write an application that calculates the volume of cuboid shaped pools.   1. Write a class with the name Rectangle. The class needs two fields (instance variable) with name width and length both of type double.   The class needs to have one constructor with parameters width and length both of type double and it needs to initialize the fields.  Write the following methods (instance methods):  Method named getArea without any parameters, it needs to return the calculated area (width \* length).   1. Write a class with the name Cuboid that extends Rectangle class. The class needs one field (instance variable) with name height of type double.   The class needs to have one constructor with three parameters width, length, and height all of type double. It needs to call parent constructor and initialize a height field.  Method named getVolume without any parameters, it needs to return the calculated volume. To calculate volume multiply the area with height.  TEST EXAMPLE  → TEST CODE:  Rectangle rectangle = new Rectangle(5, 10);  System.out.println("rectangle.area= " + rectangle.getArea());  Cuboid cuboid = new Cuboid(5,10,5);  System.out.println("cuboid.area= " + cuboid.getArea());  System.out.println("cuboid.volume= " + cuboid.getVolume());  → OUTPUT    rectangle.area= 50.0  cuboid.area= 50.0  cuboid.volume= 250.0  NOTE: All ​methods should be defined as public NOT public static.  NOTE: In total, you have to write 3 classes with one PoolMain, which contain main method for execution. |