## Hands-on Assignments for Classes and Objects

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

No.	Hands-on Assignment	Topics Covered	Status
1	Create a class Box that uses a parameterized constructor to initialize the dimensions of a box. The dimensions of the Box are width, height, depth. The class should have a method that can return the volume of the box. Create an object of the Box class and test the functionalities.	Classes and Objects, Constructor	
2	Create a new class called Calculator with the following methods:  1. A static method called powerInt(int num1,int num2) This method should return num1 to the power num2.  2. A static method called powerDouble(double num1,int num2). This method should return num1 to the power num2.  3. Invoke both the methods and test the functionalities. Hint: Use Math.pow(double,double) to calculate the power.	Classes and Objects, Constructor, static	
3	Design a class that can be used by a health care professional to keep track of a patient's vital statistics. The following are the details.  Name of the class - Patient  Member Variables - patientName(String), height(double), width(double)  Member Function - double computeBMI()  The above method should compute the BMI and return the result. The formula for computation of BMI is weight (in kg) ÷ height*height(in metres).  Create an object of the Patient class and check the results.	Classes and Objects, Constructor, static	