8. Obtain example code files **Shape.java**, **Circle.java**, **Sphere.java**, and **CircleShapeApp.java** from **Ch8** of the author's website. Compile and execute the example and understand the polymorphism it performs. Modify the application as follows:

a. Code a class called **Cone** inherited from class **Circle**. **Cone** will override the **computeArea()** and **computeVolume()** methods from its superclass to calculate the area and volume of a **Cone** object.

b. Modify the driver code, **CircleShapeApp.java**, so it will also create an object of **Cone** with a height of 12.5 and diameter of 10.48. Modify the polymorphic calls to calculate and display the result of the calculations.

c. Document your source code and save your work.

9. Obtain example code files **Employee.java**, **SeniorManager.java**, **Regularworker.java**, and **PolymorphismApp.java** from **Ch8** of the author's website. Compile and execute the example and understand the polymorphism it performs. Modify the application as follows:

a. Code a class called **SeniorWorker** inherited from class **RegularWorker** which, in addition to **name**, **salary**, and **overtimePay**, includes a double type data, **meritPay**, calculated as 10% of the salary. The class will override the **earning()** and **toString()** methods to compute the total salary of **SeniorWorker** and return the proper data of **SeniorWorker**, respectively.

b. Document your source code and save your work.

11. Obtain example code files **InvokeTest.java** from **Ch8** of the author's website. Compile and execute the code. Understand the meaning and differences between **invokespecial** and **invokevirtual**.