

CSE1007 JAVA PROGRAMMING

CAT I

30.01.2019

1. Write a java program to convert the given Pig Latin string into English string, Pig Latin string is nothing but reversing each word from the given text and appending the character 'a' to the start and end of each reversed word. say the Pig Latin String of "I love Java" is "ala aevola aavaJa". Obtain Pig Latin string from user and convert into English string.
2. Create an interface Shape with abstract methods for calculating area and getting the shape name. Create a class called Point which implements the interface with the data members area and radius. Inherit the class Circle from Point, in which override the method for calculating area and displaying the shape name accordingly. Create the class Cylinder from Circle and implement the interface methods. Provide the method for calculating the volume of the cylinder. Create a driver class containing the array of shapes. Calculate the area and volume of the shapes.

Note :

Area of Circle : $\pi * \text{radius}^2$

Area of Cylinder: $2 * \pi * \text{radius} * \text{height}$

Volume of Cylinder : $\pi * \text{radius}^2 * \text{height}$