- 1. Implement a base class shape that has a variable L as double. Derive two classes Square and Circle from Shape. Add to Shape class a function getdata() to reads L, and a function displayarea() to compute and display area of the figure (square or circle). Make displayarea() as virtual function and redefine this function in the derived classes to suit their requirement.
- 2. Implement a base class Point that has two variables x and y as int. Derive three classes Ratio, Complex and Point_2D from Point. Add to Point class a function getdata() to read x and y, and a pure virtual function display(). Redefine this function in the derived classes to suit their requirement such that this function displays:
 - i. x+iy format in Complex class.
 - ii. $\frac{x}{y}$ format in **Ratio** class.
 - iii. (x, y) format in Point_2D class.
- 3. Implement a base class BaseS that has a variable L as double and a function getl() to read L. Derive a class Rectangle from BaseS that has a variable W as double

Parallelogram from Rectangle that has a variable H as double, a function geth() to read H, and a function volume () that returns the volume of parallelogram (volume = L* W * H). (Make BaseS class as virtual class)