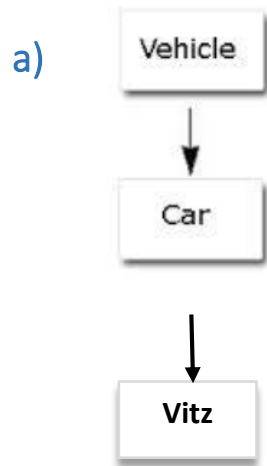


**Note:** Use appropriate type of inheritance

### Task # 01 (10+10+10 = 30 points)

Write code for the following hierarchy as shown below

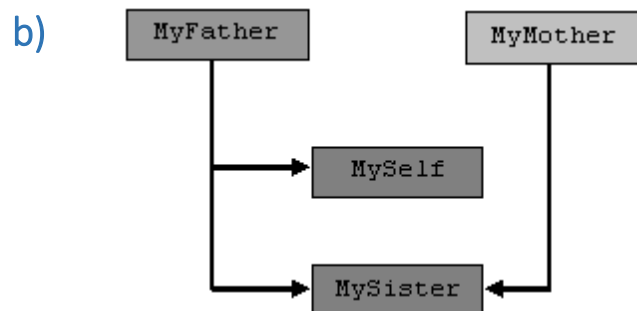


**Vehicle:** no\_of\_tires, size, no\_of\_seats,

**Car:** no\_of\_tires, size, no\_of\_seats, color

**Vitz:** no\_of\_tires, size, no\_of\_seats, color, model, plate\_number

Write these three functions for a member variable of each class setValue(), getValue() and printValue().

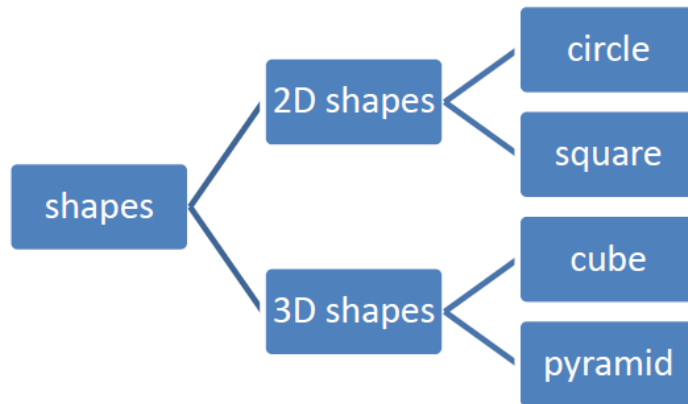


Following are the members of each class:

name, eye\_color, hair\_color are common members of all the classes.

Myself, MySister have extra member variables of education & age. Also create getters and setters.

c)



Following are the members of each class

Shapes: length, width, area()

2d shapes: area()

3d shapes: area (), volume()

Circle: radius, color, area()

Square: side, color, area()

Cube: length, width, height, area(),volume()

Pyramid: base, height, area(),volume()

Override function in the above example, also include the setters and getters function for each member variable of the class.