

Note: Use appropriate type of inheritance

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

Write code for the following hierarchy as shown below

a)



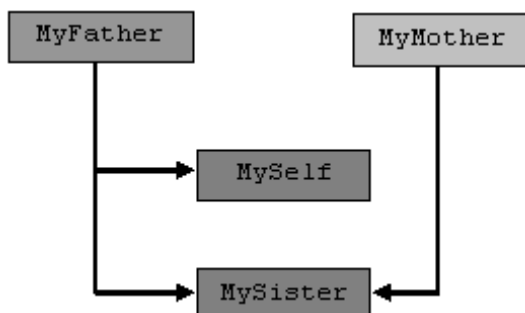
Vehicle: no_of_tires, size, no_of_seats,

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().

b)

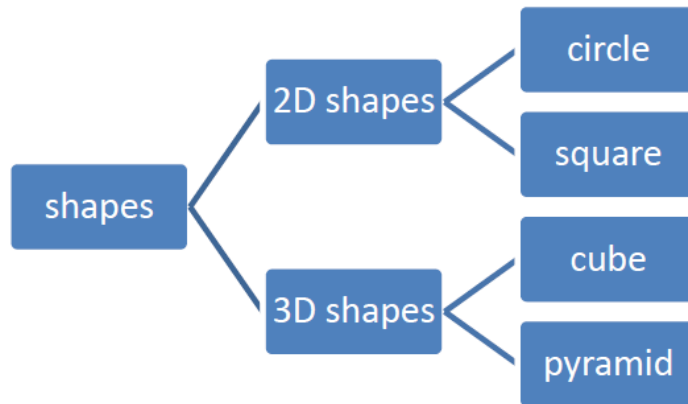


Following are the members of each class:

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.