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```
In [ ]:
         #Q1
 In [5]: class Vehicle:
             def __init__(self,name_of_vehicle,max_speed,average_of_vehicle):
                 self.name_of_vehicle1=name_of_vehicle
                  self.max_speed1=max_speed
                  self.average_of_vehicle1=average_of_vehicle
         veh=Vehicle('honda',240,62.25)
 In [6]: veh.name_of_vehicle1
 Out[6]: 'honda'
         veh.average_of_vehicle1
 In [7]:
 Out[7]: 62.25
 In [8]: veh.max_speed1
Out[8]: 240
In [17]:
In [18]: class Vehicle:
             def seating_capacity(self,capacity=50):
                  return"seating capacity of a honda is 50 passengers"
         class car(Vehicle):
             pass
         car_obj=car()
         car_obj.seating_capacity()
Out[18]: 'seating capacity of a honda is 50 passengers'
In [19]: #Q3
In [20]: #multiple inhertance means one class inherit the property of two classes is called
In [24]:
         #Ex
         class Class1:
             def test class1(self):
                  return"this is a class1"
         class Class2:
             def test_class2(self):
                  return"this is a class2"
         class Class3(Class1,Class2):
             pass
         obj_class3=Class3()
         obj_class3.test_class2()
Out[24]: 'this is a class2'
```

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```
In [25]:
         #Q4
In [26]:
         #Getter: A method that allows you to access an attribute in a given class.
         #Setter: A method that allows you to set or mutate the value of an attribute in a c
In [37]: #Ex
         class Car:
             def __init__(self,year,make,model,speed):
                  self.__year=year
                  self.__make=make
                  self.__model=model
                  self. speed=0
             def set_speed(self,speed):
                  self.__speed=0 if speed<0 else speed
             def get_speed(self):
                  return self.__speed
          c=Car(2021,"toyoto","innova",234)
          c.set_speed(234)
          c.get_speed()
Out[37]: 234
In [39]:
         #Q5
In [40]: #Method overriding is an ability of any object-oriented programming language that a
         #When a method in a subclass has the same name, same parameters or signature and sa
In [41]: #Ex
         # Defining parent class
          class Parent():
             # Constructor
             def __init__(self):
                  self.value = "Inside Parent"
             # Parent's show method
             def show(self):
                  print(self.value)
          # Defining child class
          class Child(Parent):
             # Constructor
             def __init__(self):
                  self.value = "Inside Child"
             # Child's show method
             def show(self):
                  print(self.value)
          # Driver's code
         obj1 = Parent()
```

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```
obj2 = Child()
obj1.show()
obj2.show()

Inside Parent
Inside Child
In []:
```