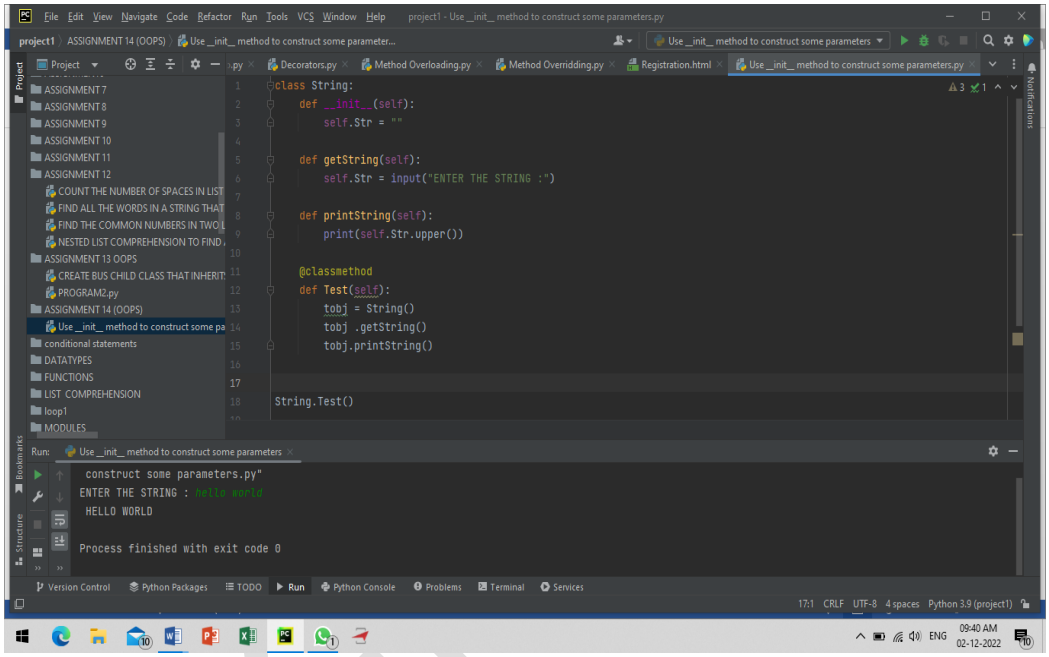
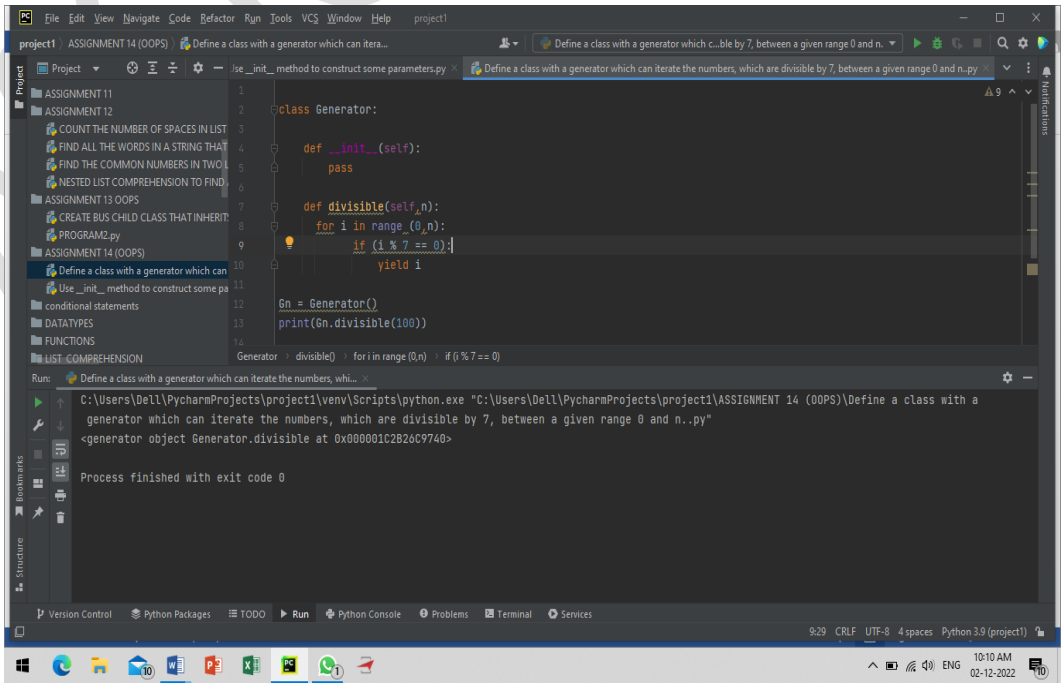
SREEKUTTY C
PYTHON OCTOBER 2022 BATCH 1.30PM – SHIVA

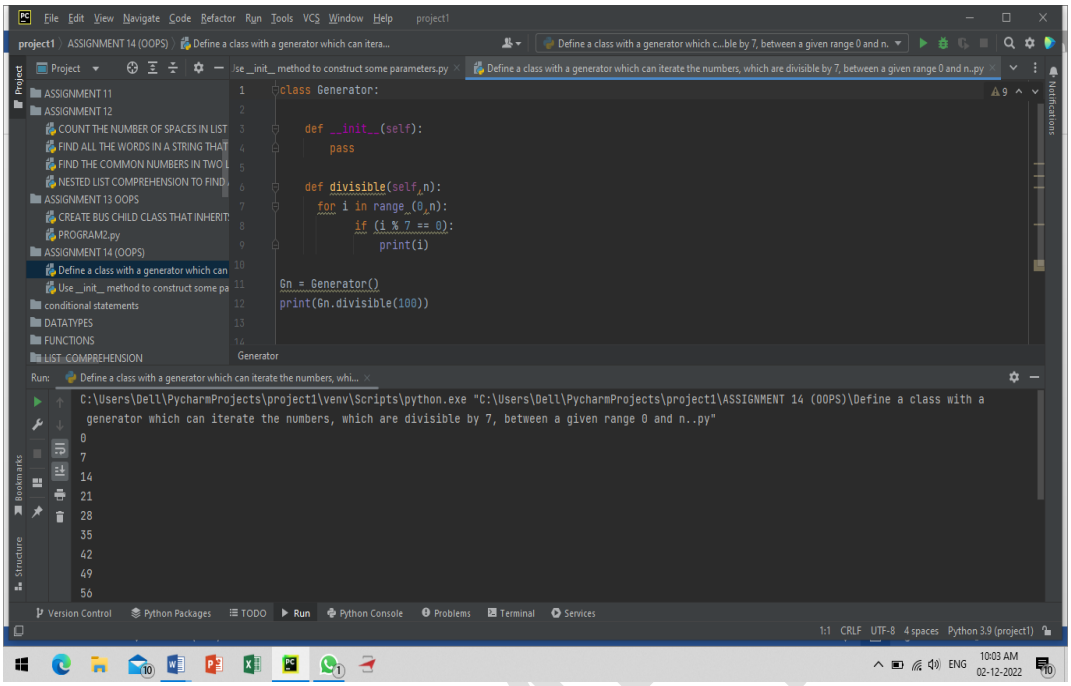
ASSIGNMENT 14

1. Define a class which has at least two methods: getString: to get a string from console input. printString: to print the string in upper case. Also please include simple test function to test the class method .Hints: Use __init__ method to construct some parameters

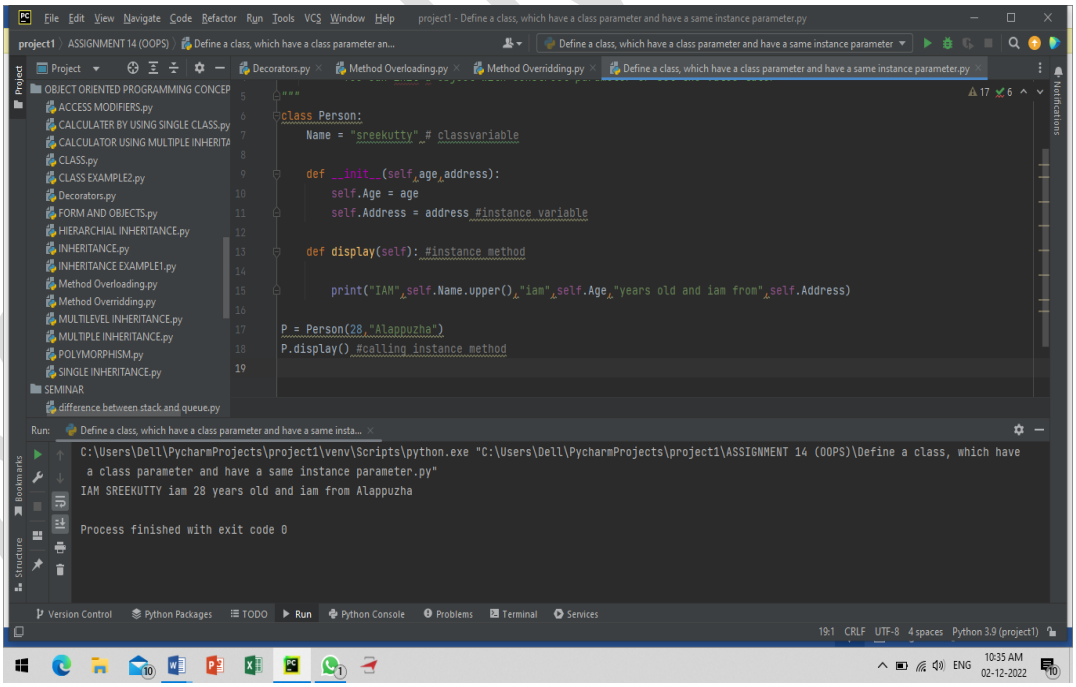


2. Define a class with a generator which can iterate the numbers, which are divisible by 7, between a given ranges 0 and n. Hints: Consider using yield

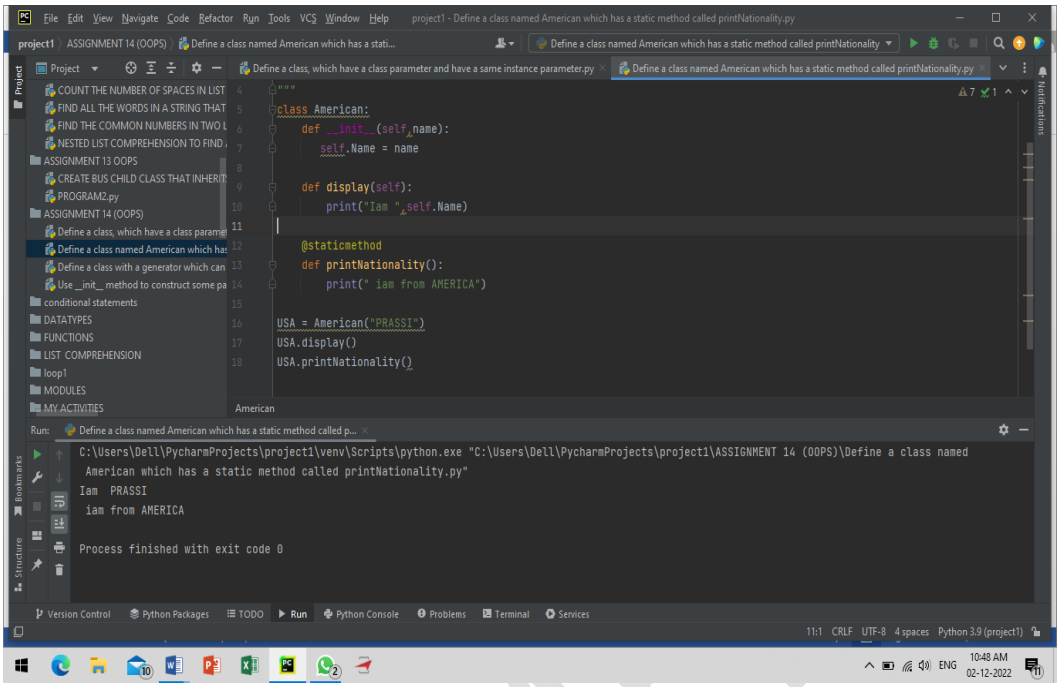




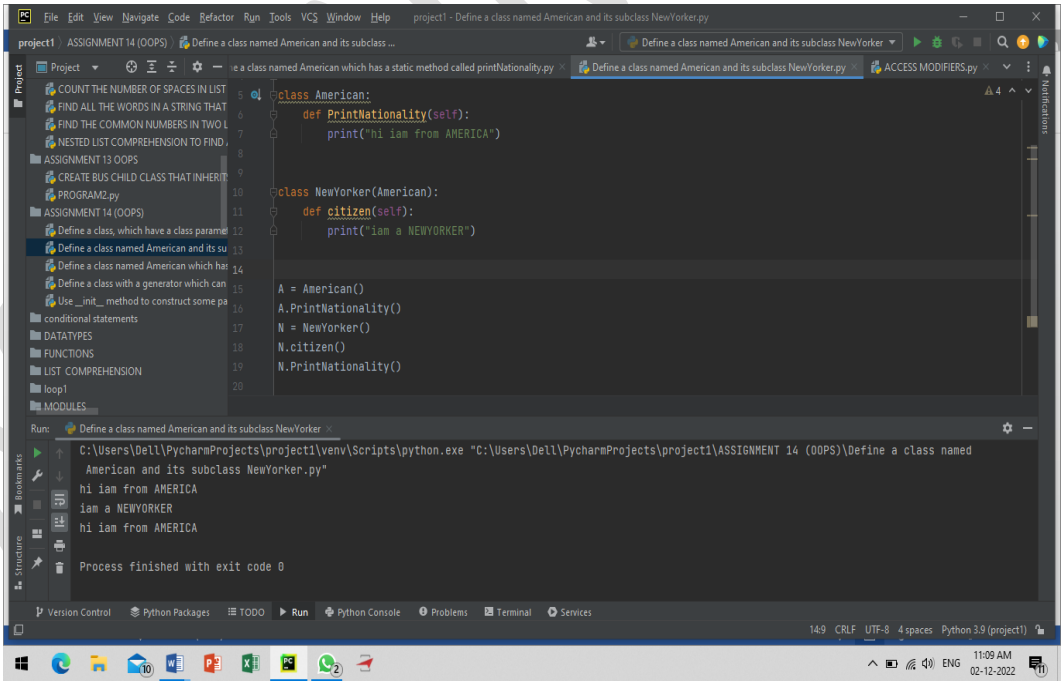
3. Define a class, which have a class parameter and have a same instance parameter. Hints: Define a instance parameter, need add it in __init__ method. You can init a object with construct parameter or set the value later.



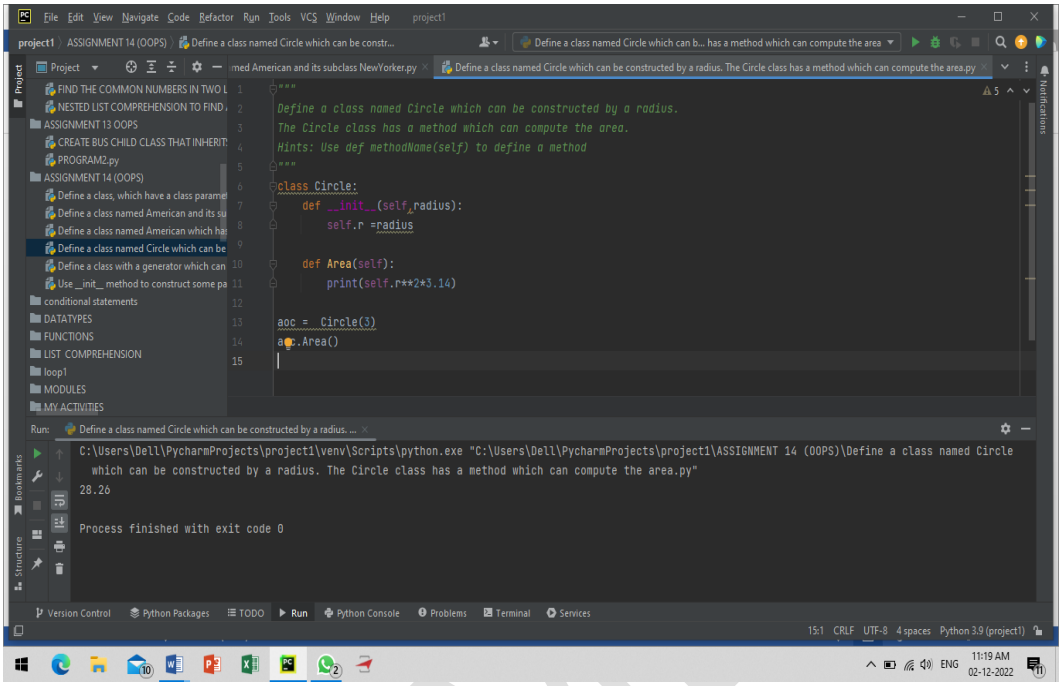
4. Define a class named American which has a static method called printNationality. Hints: Use @staticmethod decorator to define class static method.



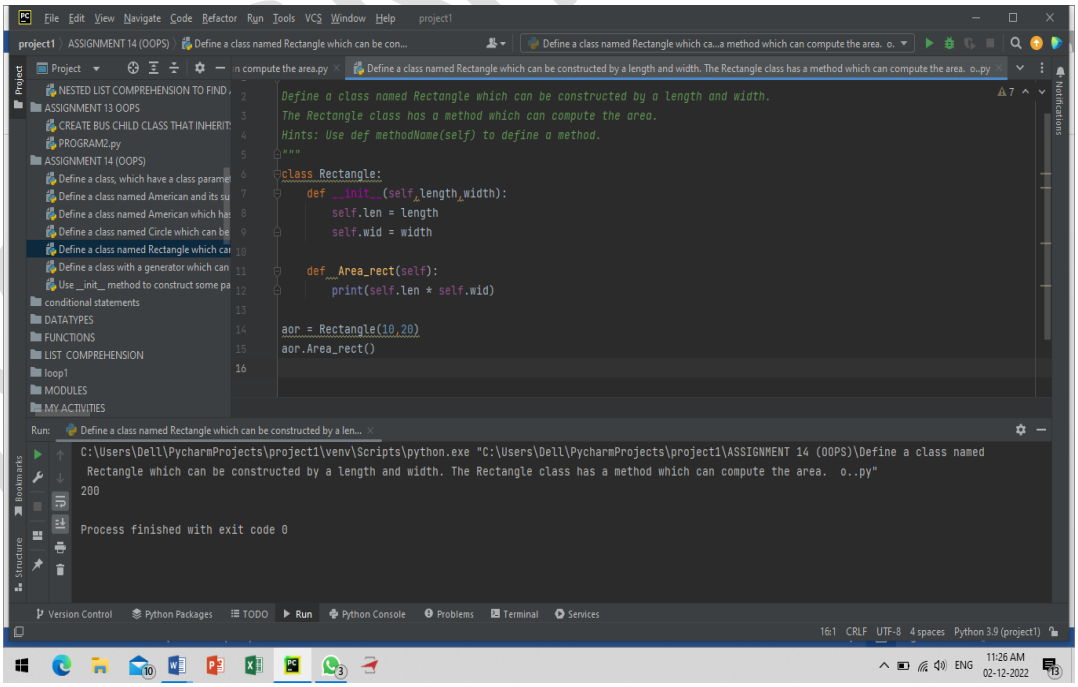
5. Define a class named American and its subclass NewYorker. Hints: Use class Subclass(ParentClass) to define a subclass



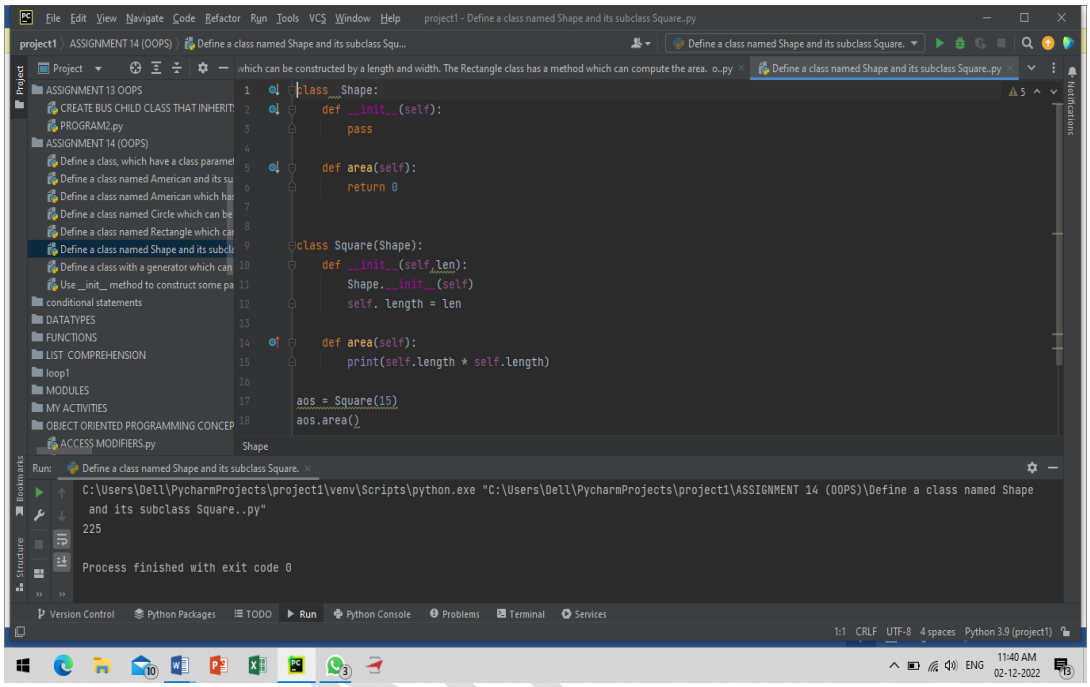
6. Define a class named Circle which can be constructed by a radius. The Circle class has a method which can compute the area. Hints: Use def methodName(self) to define a method.



7. Define a class named Rectangle which can be constructed by a length and width. The Rectangle class has a method which can compute the area. Hints: Use def methodName(self) to define a method.



8. Define a class named Shape and its subclass Square. The Square class has an init function which takes a length as argument. Both classes have a area function which can print the area of the shape where Shape's area is 0 by default. Hints: To override a method in super class, we can define a method with the same name in the super class.



9. Define a class Person and its two child classes: Male and Female. All classes have a method "getGender" which can print "Male" for Male class and "Female" for Female class. Hints: Use Subclass(Parentclass) to define a child class.