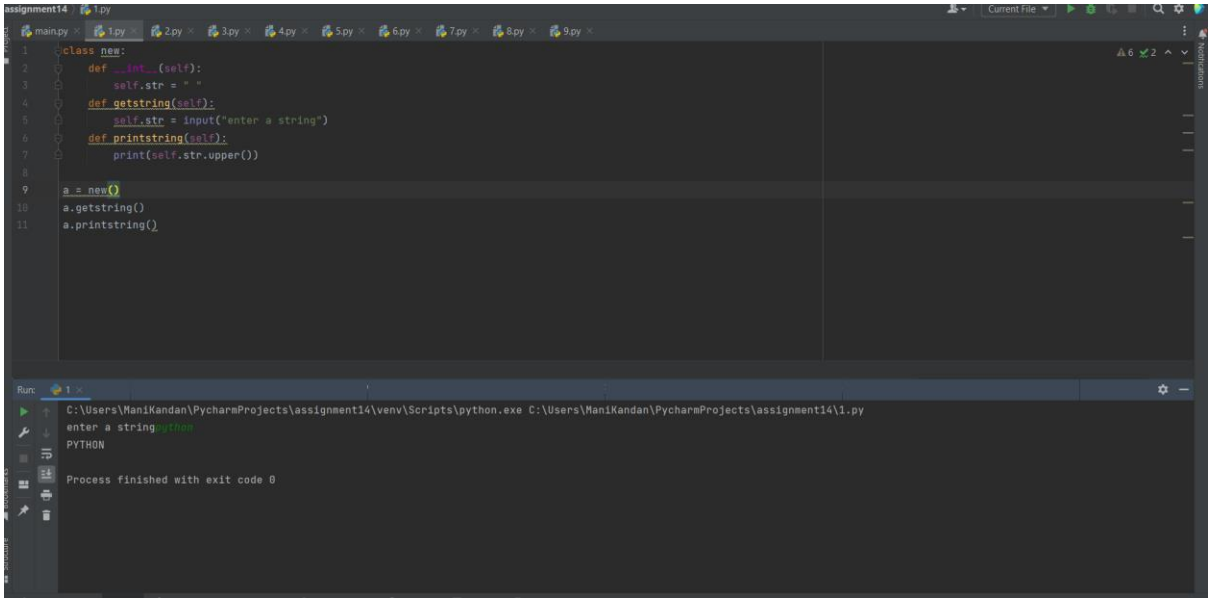
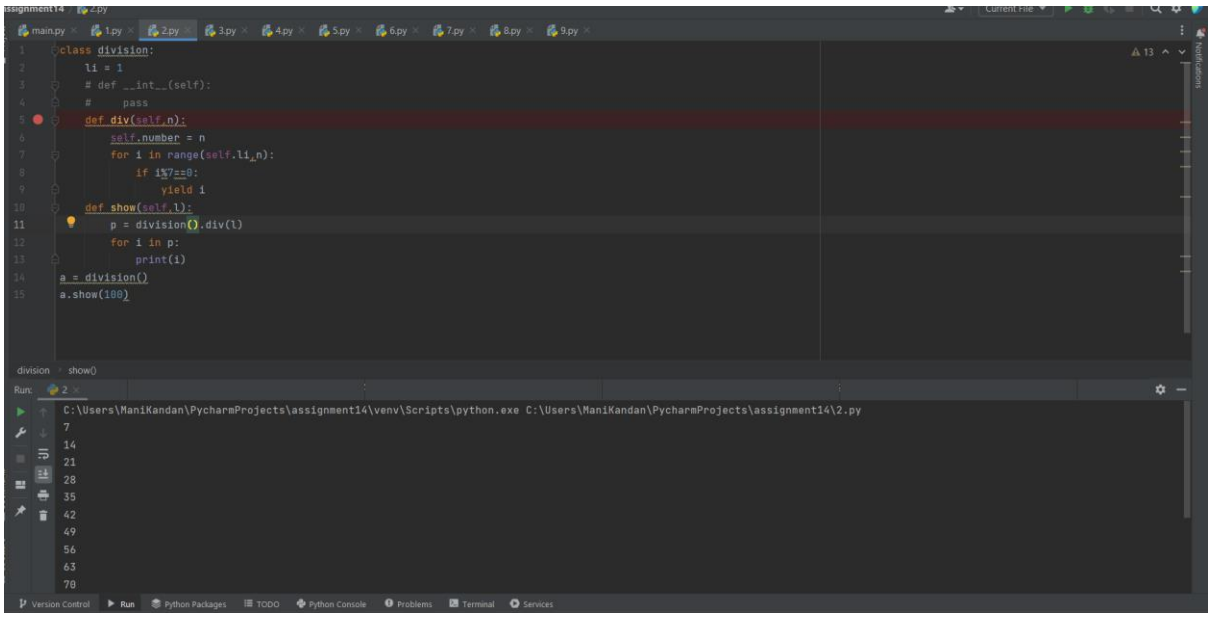
ASSIGNMENT 14



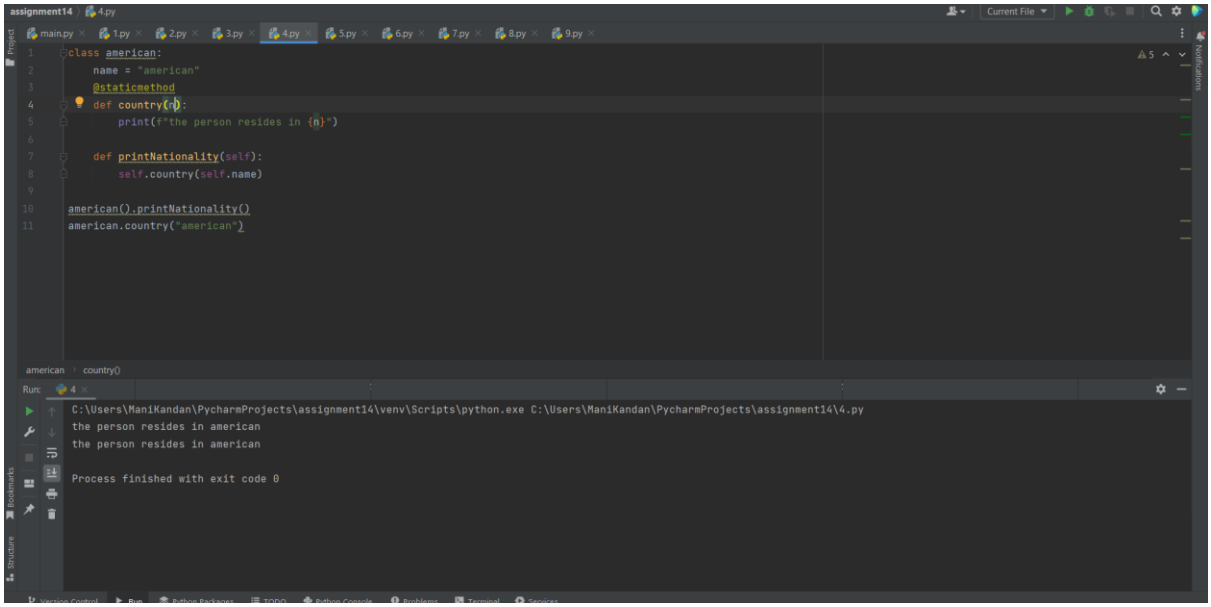
```
class new:
    def __int__(self):
        self.str = " "
    def getstring(self):
        self.str = input("enter a string")
    def printstring(self):
        print(self.str.upper())

a = new()
a.getstring()
a.printstring()
```

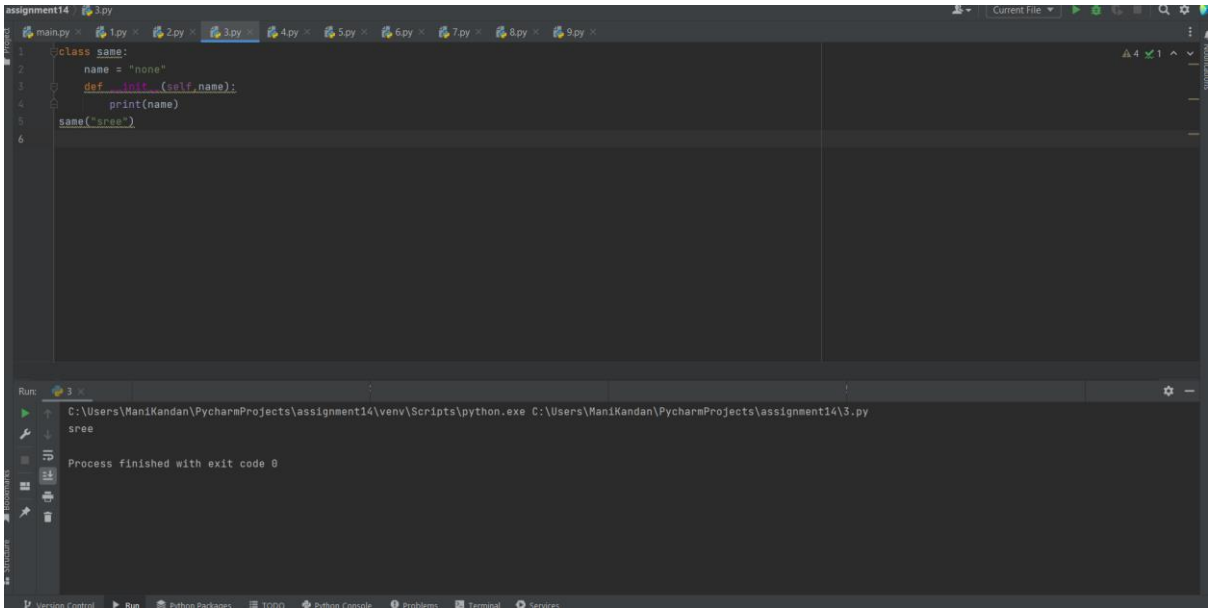
```
C:\Users\ManiKandan\PycharmProjects\assignment14\venv\Scripts\python.exe C:\Users\ManiKandan\PycharmProjects\assignment14\1.py
enter a stringpython
PYTHON

Process finished with exit code 0
```

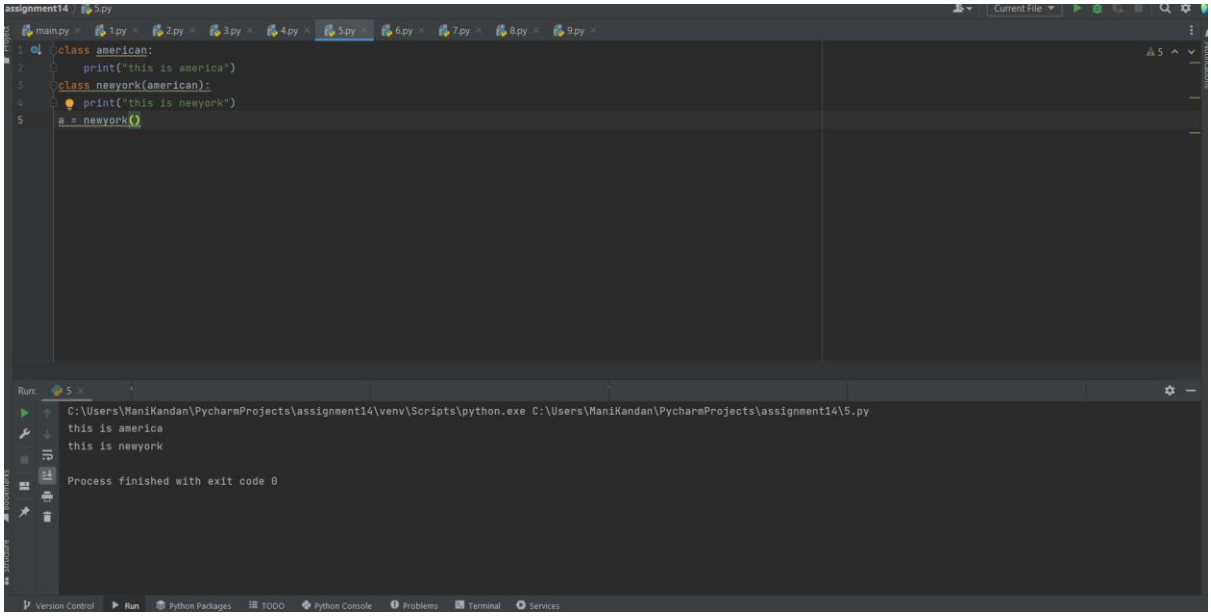


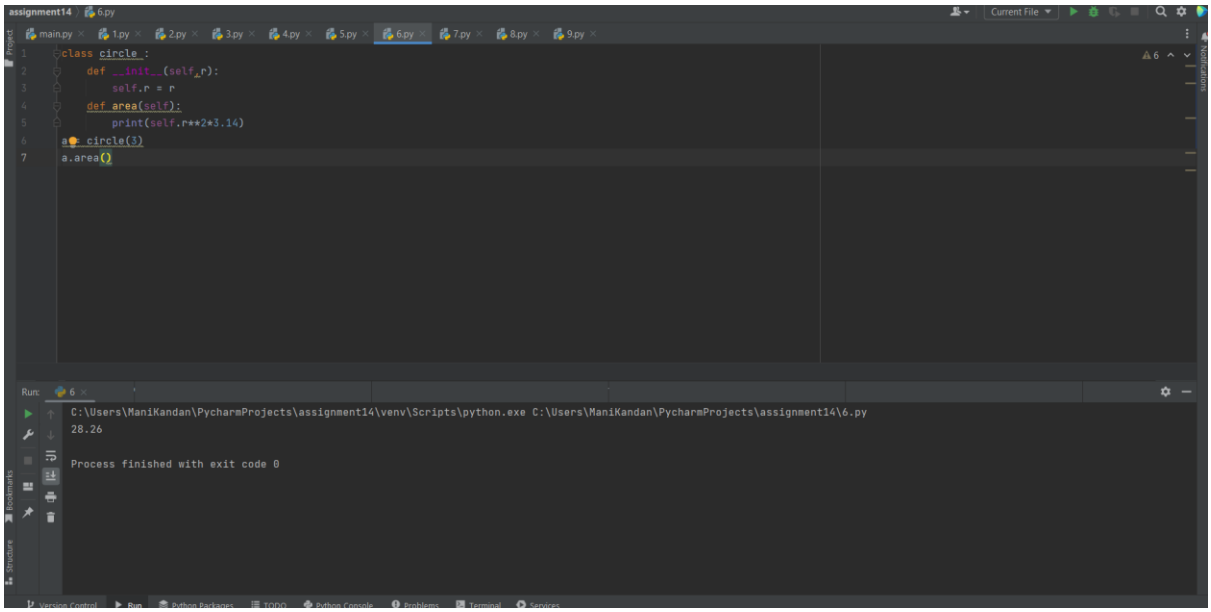
```
class division:
    li = 1
    # def __int__(self):
    #     pass
    def div(self,n):
        self.number = n
        for i in range(self.li,n):
            if i%7==0:
                yield i
    def show(self,l):
        p = division().div(l)
        for i in p:
            print(i)
a = division()
a.show(100)
```

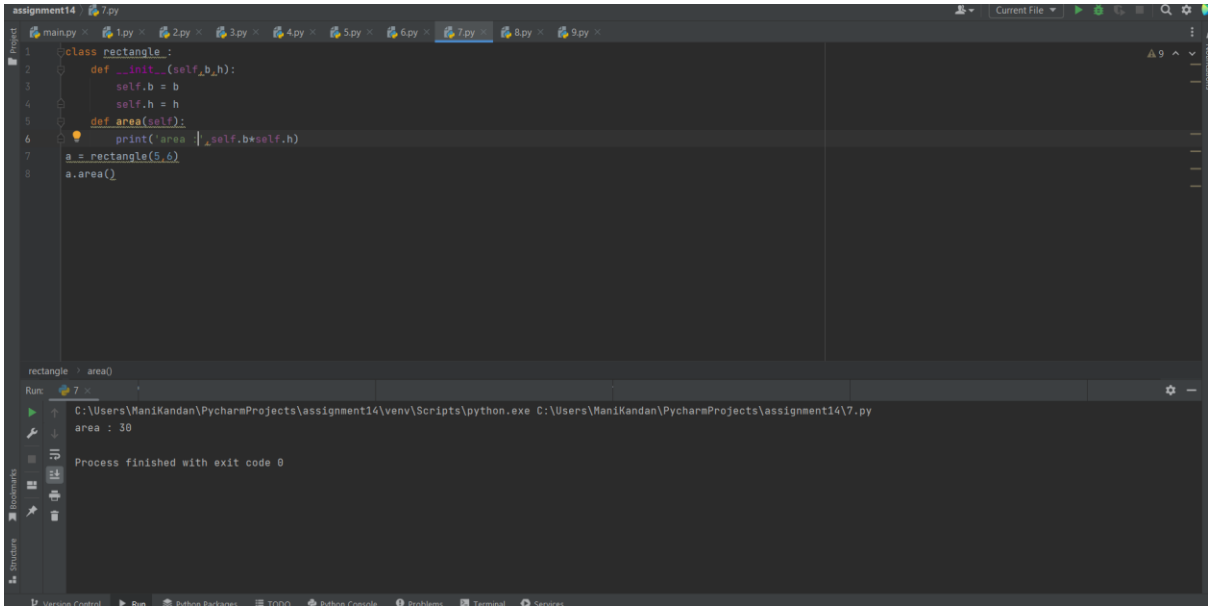
```
C:\Users\ManiKandan\PycharmProjects\assignment14\venv\Scripts\python.exe C:\Users\ManiKandan\PycharmProjects\assignment14\2.py
7
14
21
28
35
42
49
56
63
70
```


assignment14
4.py
Current File
main.py
1.py
2.py
3.py
4.py
5.py
6.py
7.py
8.py
9.py
class american:
name = "american"
@staticmethod
def country(n):
print(f"the person resides in {n}")
def printNationality(self):
self.country(self.name)
american().printNationality()
american.country("american")
american
country()
Run:
4
C:\Users\ManiKandan\PycharmProjects\assignment14\venv\Scripts\python.exe C:\Users\ManiKandan\PycharmProjects\assignment14\4.py
the person resides in american
the person resides in american
Process finished with exit code 0


assignment14
3.py
Current File
main.py
1.py
2.py
3.py
4.py
5.py
6.py
7.py
8.py
9.py
class same:
name = "none"
def __init__(self,name):
print(name)
same("sree")
Run:
3
C:\Users\ManiKandan\PycharmProjects\assignment14\venv\Scripts\python.exe C:\Users\ManiKandan\PycharmProjects\assignment14\3.py
sree
Process finished with exit code 0

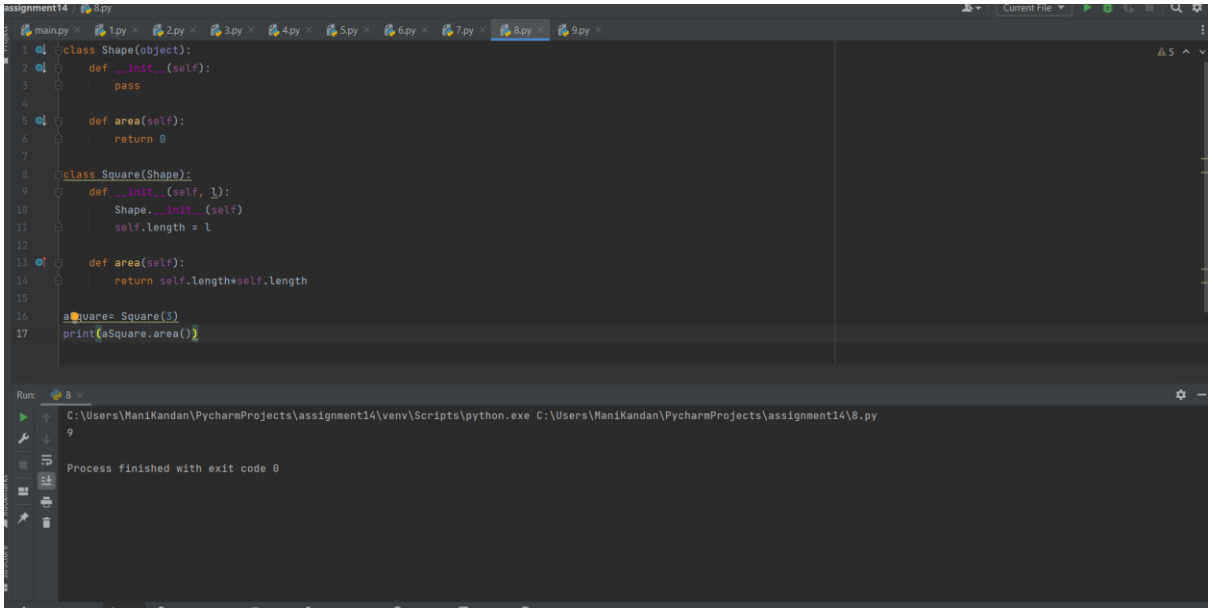

assignment14 / 5.py
Current File
main.py 1.py 2.py 3.py 4.py 5.py 6.py 7.py 8.py 9.py
class american:
print("this is america")
class newyork(american):
print("this is newyork")
a = newyork()
Run: 5
C:\Users\ManiKandan\PycharmProjects\assignment14\venv\Scripts\python.exe C:\Users\ManiKandan\PycharmProjects\assignment14\5.py
this is america
this is newyork
Process finished with exit code 0
Version Control Run Python Packages TODO Python Console Problems Terminal Services


assignment14 / 6.py
Current File
main.py 1.py 2.py 3.py 4.py 5.py 6.py 7.py 8.py 9.py
class circle :
def __init__(self,r):
self.r = r
def area(self):
print(self.r**2*3.14)
a= circle(3)
a.area()
Run: 6
C:\Users\ManiKandan\PycharmProjects\assignment14\venv\Scripts\python.exe C:\Users\ManiKandan\PycharmProjects\assignment14\6.py
28.26
Process finished with exit code 0
Version Control Run Python Packages TODO Python Console Problems Terminal Services



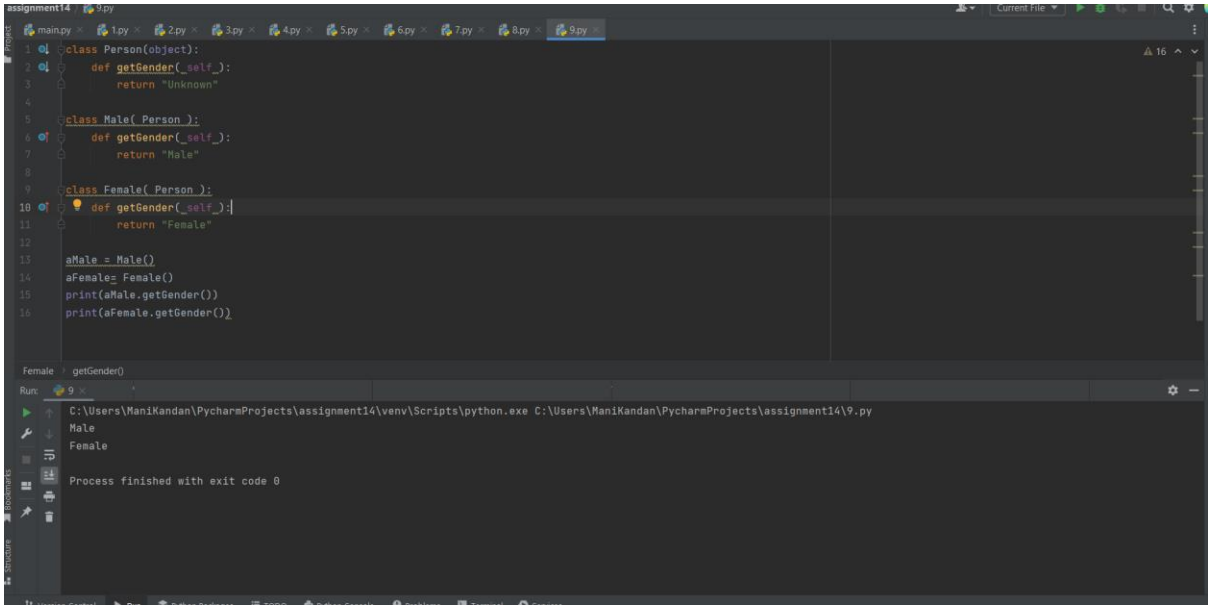
```
class rectangle :
    def __init__(self,b,h):
        self.b = b
        self.h = h
    def area(self):
        print('area : ',self.b*self.h)
a = rectangle(5,6)
a.area()
```

```
C:\Users\ManiKandan\PycharmProjects\assignment14\venv\Scripts\python.exe C:\Users\ManiKandan\PycharmProjects\assignment14\7.py
area : 30

Process finished with exit code 0
```



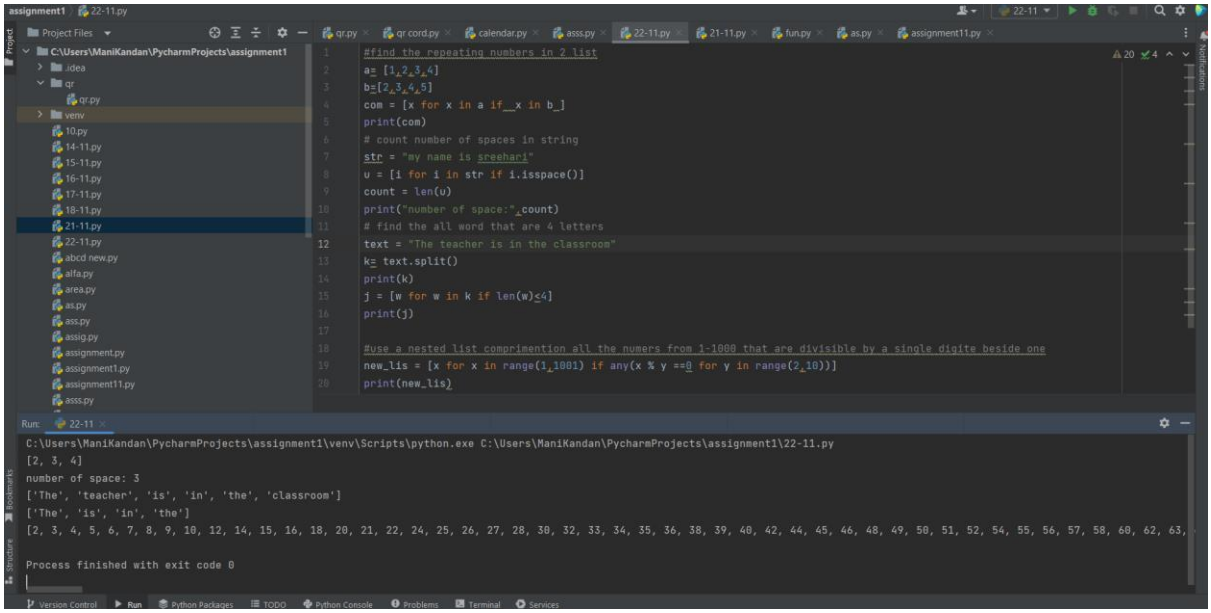
```
class Shape(object):
    def __init__(self):
        pass

    def area(self):
        return 0

class Square(Shape):
    def __init__(self, l):
        Shape.__init__(self)
        self.length = l

    def area(self):
        return self.length*self.length

aSquare= Square(3)
print(aSquare.area())
```

```
C:\Users\ManiKandan\PycharmProjects\assignment14\venv\Scripts\python.exe C:\Users\ManiKandan\PycharmProjects\assignment14\8.py
9

Process finished with exit code 0
```



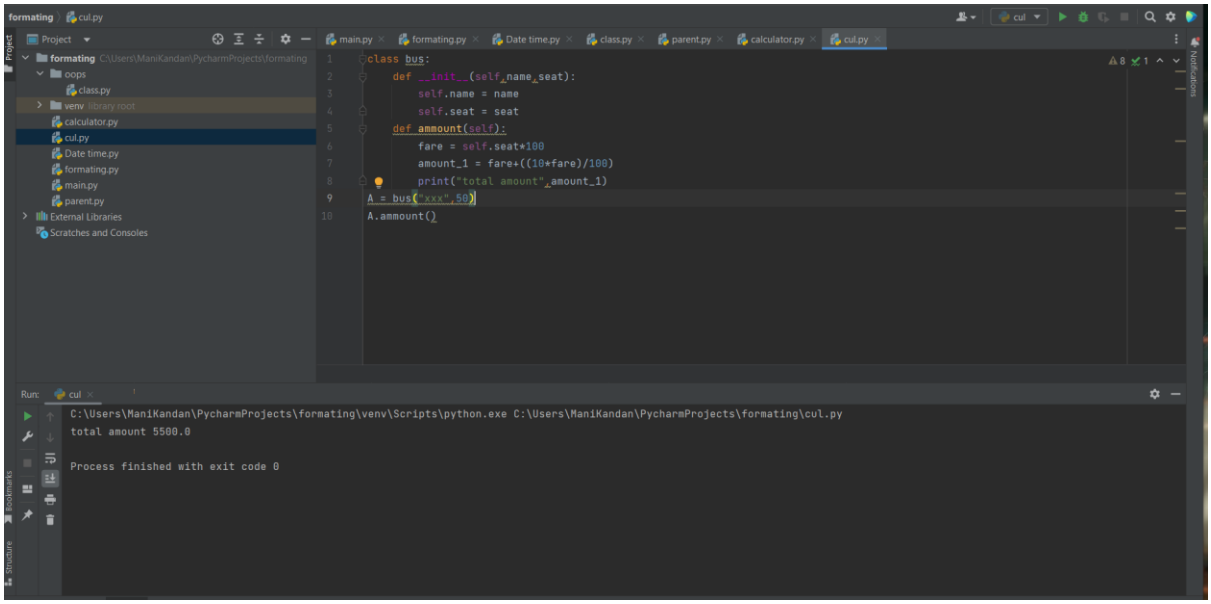
```
class Person(object):
    def getGender(_self_):
        return "Unknown"

class Male( Person ):
    def getGender(_self_):
        return "Male"

class Female( Person ):
    def getGender(_self_):
        return "Female"

aMale = Male()
aFemale= Female()
print(aMale.getGender())
print(aFemale.getGender())
```

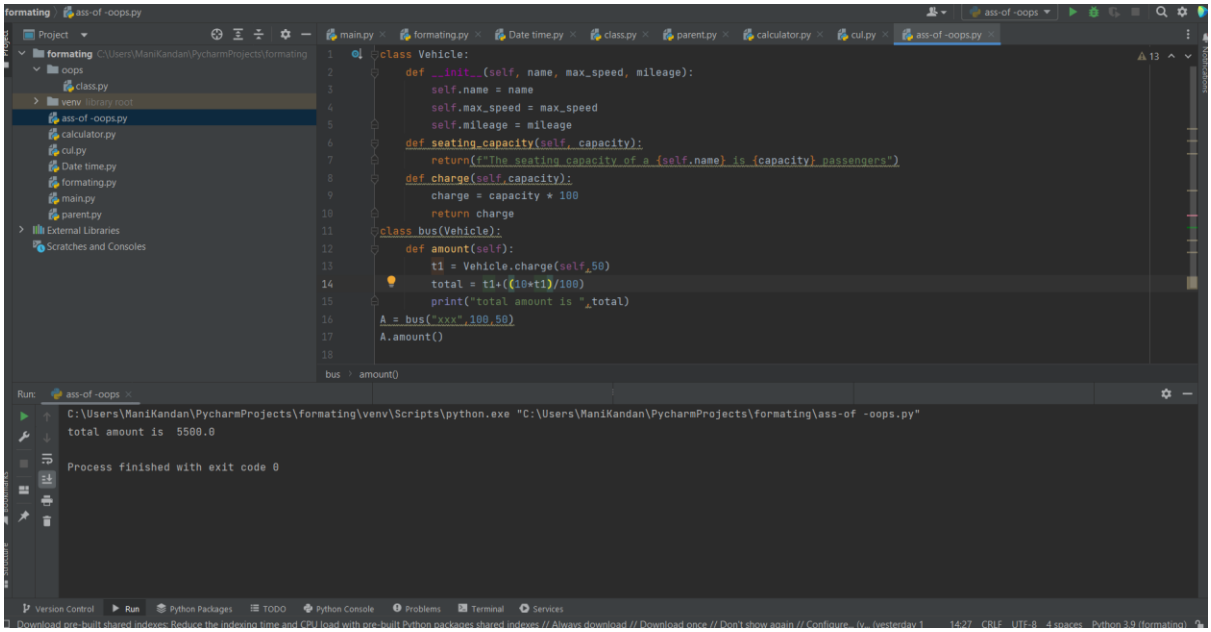
```
C:\Users\ManiKandan\PycharmProjects\assignment14\venv\Scripts\python.exe C:\Users\ManiKandan\PycharmProjects\assignment14\9.py
Male
Female

Process finished with exit code 0
```



```
#find the repeating numbers in 2 list
a= [1,2,3,4]
b=[2,3,4,5]
com = [x for x in a if x in b]
print(com)
# count number of spaces in string
str = "my name is sreehari"
u = [i for i in str if i.isspace()]
count = len(u)
print("number of space:",count)
# find the all word that are 4 letters
text = "The teacher is in the classroom"
k= text.split()
print(k)
j = [w for w in k if len(w)<4]
print(j)


#use a nested list comprimention all the numers from 1-1000 that are divisible by a single digite beside one
new_lis = [x for x in range(1,1001) if any(x % y ==0 for y in range(2,10))]
print(new_lis)
```

```
C:\Users\ManiKandan\PycharmProjects\assignment1\venv\Scripts\python.exe C:\Users\ManiKandan\PycharmProjects\assignment1\22-11.py
[2, 3, 4]
number of space: 3
['The', 'teacher', 'is', 'in', 'the', 'classroom']
['The', 'is', 'in', 'the']
[2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 15, 16, 18, 20, 21, 22, 24, 25, 26, 27, 28, 30, 32, 33, 34, 35, 36, 38, 39, 40, 42, 44, 45, 46, 48, 49, 50, 51, 52, 54, 55, 56, 57, 58, 60, 62, 63,

Process finished with exit code 0
```


class bus:
def __init__(self,name,seat):
self.name = name
self.seat = seat
def ammount(self):
fare = self.seat*100
amount_1 = fare+((10*fare)/100)
print("total amount",amount_1)
A = bus("xxx",50)
A.ammount()
C:\Users\ManiKandan\PycharmProjects\formating\venv\Scripts\python.exe C:\Users\ManiKandan\PycharmProjects\formating\cul.py
total amount 5500.0
Process finished with exit code 0


class Vehicle:
def __init__(self, name, max_speed, mileage):
self.name = name
self.max_speed = max_speed
self.mileage = mileage
def seating_capacity(self, capacity):
return(f"The seating capacity of a {self.name} is {capacity} passengers")
def charge(self,capacity):
charge = capacity * 100
return charge
class bus(Vehicle):
def amount(self):
t1 = Vehicle.charge(self,50)
total = t1+((10*t1)/100)
print("total amount is ",total)
A = bus("xxx",100,50)
A.amount()
C:\Users\ManiKandan\PycharmProjects\formating\venv\Scripts\python.exe "C:\Users\ManiKandan\PycharmProjects\formating\ass-of -oops.py"
total amount is 5500.0
Process finished with exit code 0