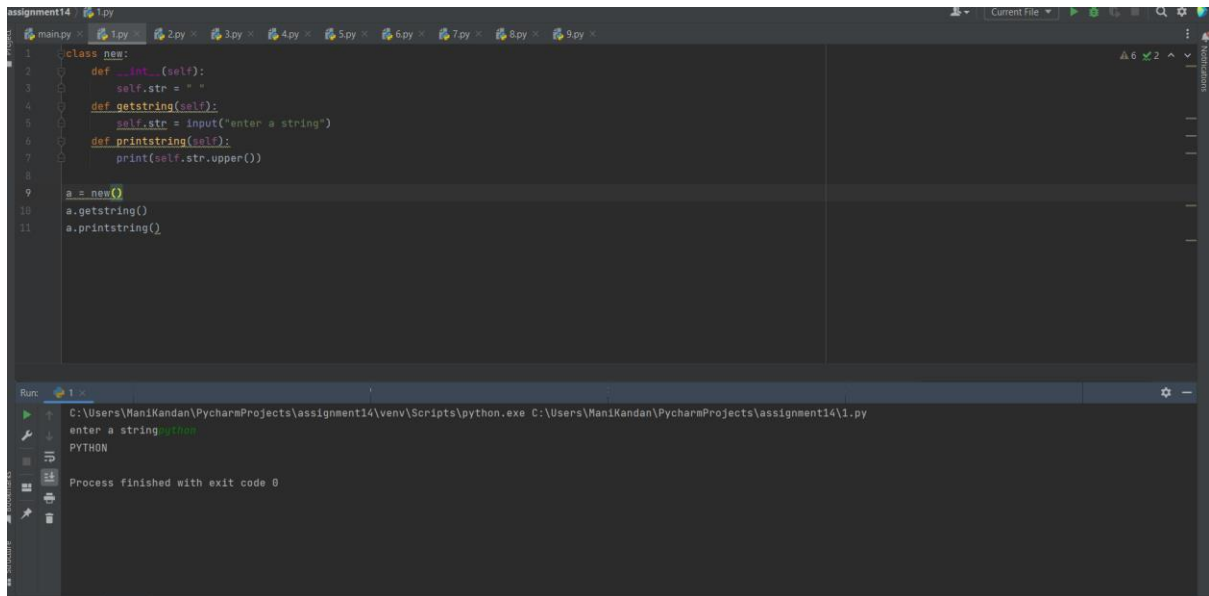


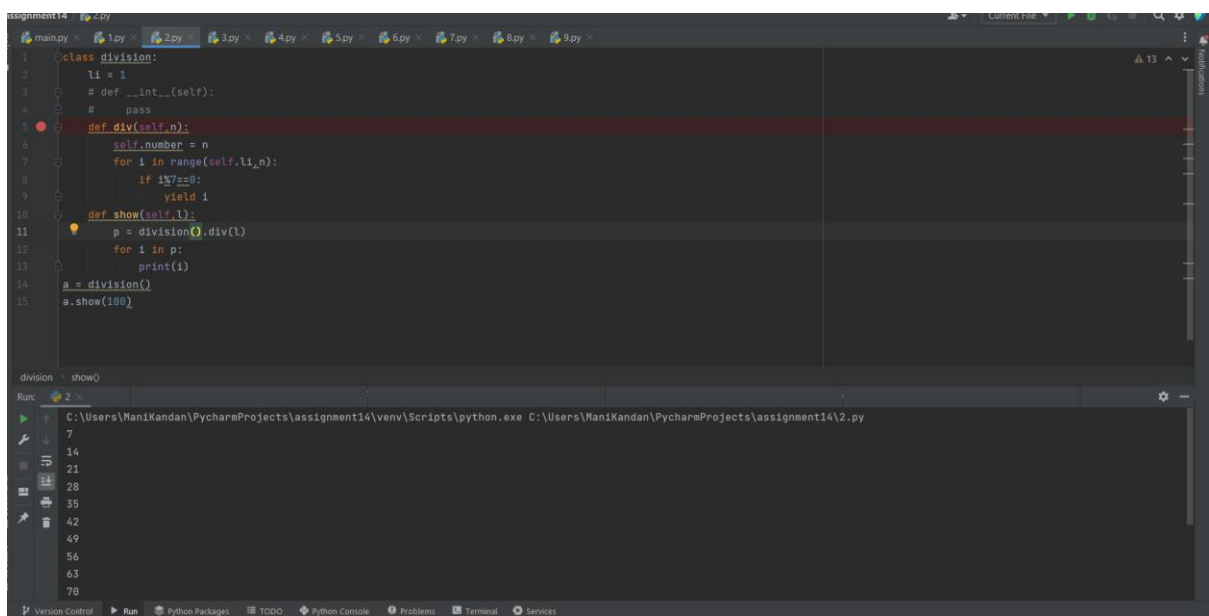
ASSIGNMENT 14



The screenshot shows the PyCharm IDE with a file named 'assignment14_1.py'. The code defines a class 'new' with methods for initialization, getting a string, and printing it in uppercase. The execution output shows the program running successfully with the input 'enter a string'.

```
1 class new:
2     def __init__(self):
3         self.str = ""
4     def getstring(self):
5         self.str = input("enter a string")
6     def printstring(self):
7         print(self.str.upper())
8
9 a = new()
10 a.getstring()
11 a.printstring()
```

Run 1
C:\Users\ManiKandan\PycharmProjects\assignment14\venv\Scripts\python.exe C:\Users\ManiKandan\PycharmProjects\assignment14\1.py
enter a string
PYTHON
Process finished with exit code 0



The screenshot shows the PyCharm IDE with a file named 'assignment14_2.py'. The code defines a class 'division' with methods for initialization, division, and showing the result. The execution output shows the program running successfully with the input '100'.

```
1 class division:
2     li = 1
3     # def __init__(self):
4     #     pass
5     def div(self, n):
6         self.number = n
7         for i in range(self.li, n):
8             if i % 7 == 0:
9                 yield i
10    def show(self, l):
11        p = division().div(l)
12        for i in p:
13            print(i)
14    a = division()
15    a.show(100)
```

division show() 2
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

```
1 class american:
2     name = "american"
3     @staticmethod
4     def country(n):
5         print(f"the person resides in {n}")
6
7     def printNationality(self):
8         self.country(self.name)
9
10 american().printNationality()
11 american.country("american")
```

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

```
1 class same:
2     name = "none"
3     def __init__(self, name):
4         print(name)
5     same("sree")
6
```

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
main.py 1.py 2.py 3.py 4.py 5.py 6.py 7.py 8.py 9.py
1 class american:
2     print("this is america")
3
4 class newyork(american):
5     print("this is newyork")
6
7 a = newyork()
8
9
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
```

```
assignment14 6.py
main.py 1.py 2.py 3.py 4.py 5.py 6.py 7.py 8.py 9.py
1 class circle:
2     def __init__(self,r):
3         self.r = r
4     def area(self):
5         print(self.r**2*3.14)
6
7 a = circle(3)
8 a.area()
9
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
```

The screenshot shows the PyCharm IDE with a project named 'assignment14'. The editor displays a Python file '7.py' containing the following code:

```
1 class rectangle:
2     def __init__(self, b, h):
3         self.b = b
4         self.h = h
5     def area(self):
6         print('area :', self.b*self.h)
7     a = rectangle(5,6)
8     a.area()
```

The Run console at the bottom shows the execution path: `C:\Users\ManiKandan\PycharmProjects\assignment14\venv\Scripts\python.exe C:\Users\ManiKandan\PycharmProjects\assignment14\7.py`. The output is `area : 30`, and the process finished with exit code 0.

The screenshot shows the PyCharm IDE with a project named 'assignment14'. The editor displays a Python file '8.py' containing the following code:

```
1 class Shape(object):
2     def __init__(self):
3         pass
4
5     def area(self):
6         return 0
7
8 class Square(Shape):
9     def __init__(self, l):
10         Shape.__init__(self)
11         self.length = l
12
13     def area(self):
14         return self.length*self.length
15
16 aSquare= Square(3)
17 print(aSquare.area())
```

The Run console at the bottom shows the execution path: `C:\Users\ManiKandan\PycharmProjects\assignment14\venv\Scripts\python.exe C:\Users\ManiKandan\PycharmProjects\assignment14\8.py`. The output is `9`, and the process finished with exit code 0.

```
assignment14 9.py
1 class Person(object):
2     def getGender(self):
3         return "Unknown"
4
5 class Male(Person):
6     def getGender(self):
7         return "Male"
8
9 class Female(Person):
10    def getGender(self):
11        return "Female"
12
13 aMale = Male()
14 aFemale = Female()
15 print(aMale.getGender())
16 print(aFemale.getGender())
```

Female : getGender()

Run: 9

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

Male

Female

Process finished with exit code 0

```
assignment1 22-11.py
1 #find the repeating numbers in 2 list
2 a = [1,2,3,4]
3 b = [2,3,4,5]
4 com = [x for x in a if x in b]
5 print(com)
6 # count number of spaces in string
7 str = "my name is sreehar"
8 u = [i for i in str if i.isspace()]
9 count = len(u)
10 print("number of space:"_count)
11 # find the all word that are 4 letters
12 text = "The teacher is in the classroom"
13 k = text.split()
14 print(k)
15 j = [w for w in k if len(w)<4]
16 print(j)
17
18 #use a nested list comprehension all the numbers from 1-1000 that are divisible by a single digit beside one
19 new_lis = [x for x in range(1,1001) if any(x % y ==0 for y in range(2,10))]
20 print(new_lis)
```

Run: 22-11

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

The screenshot shows the PyCharm IDE with a project named 'formatting'. The file explorer on the left shows a directory structure with files like 'class.py', 'calculator.py', 'cul.py', 'Date time.py', 'formatting.py', 'main.py', and 'parent.py'. The main editor displays the code for 'cul.py':

```
1 class bus:
2     def __init__(self, name, seat):
3         self.name = name
4         self.seat = seat
5     def amount(self):
6         fare = self.seat*100
7         amount_1 = fare+((10*fare)/100)
8         print("total amount", amount_1)
9     A = bus("xxx", 50)
10    A.amount()
```

The Run window at the bottom shows the command: `C:\Users\ManiKandan\PycharmProjects\formatting\venv\Scripts\python.exe C:\Users\ManiKandan\PycharmProjects\formatting\cul.py` and the output: `total amount 5500.0`. The process finished with exit code 0.

The screenshot shows the PyCharm IDE with a project named 'formatting'. The file explorer on the left shows a directory structure with files like 'class.py', 'calculator.py', 'cul.py', 'Date time.py', 'formatting.py', 'main.py', and 'parent.py'. The main editor displays the code for 'ass-of-oops.py':

```
1 class Vehicle:
2     def __init__(self, name, max_speed, mileage):
3         self.name = name
4         self.max_speed = max_speed
5         self.mileage = mileage
6     def seating_capacity(self, capacity):
7         return(f"The seating capacity of a {self.name} is {capacity} passengers")
8     def charge(self, capacity):
9         charge = capacity * 100
10        return charge
11 class bus(Vehicle):
12     def amount(self):
13         t1 = Vehicle.charge(self, 50)
14         total = t1+((10*t1)/100)
15         print("total amount is ", total)
16     A = bus("xxx", 100, 50)
17     A.amount()
18 bus.A.amount()
```

The Run window at the bottom shows the command: `C:\Users\ManiKandan\PycharmProjects\formatting\venv\Scripts\python.exe "C:\Users\ManiKandan\PycharmProjects\formatting\ass-of -oops.py"` and the output: `total amount is 5500.0`. The process finished with exit code 0.