Assignment -3

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Github Link: https://github.com/Mohith700/Assignment_3.git

Video Link: https://drive.google.com/file/d/1_Smfd-WEhWewk1YYcykl4JTagfQbT2s3/view?usp=drive_link

1)

```
class Employee:
       numberOfEmployees = 0
       def __init__(self, name, family, salary, department):
           self.name = name
           self.family = family
           self.salary = salary
           self.department = department
           Employee.numberOfEmployees+=1
   def averagesalary(employee):
       total = sum(e.salary for e in employee)
       average = total / len(employee)
       return average
    class Full_time_Employee(Employee):
       def __init__(self, name, family, salary, department):
           Employee.__init__(self,name, family, salary, department)
   print("Employee 1: ")
   employee_1 = Employee(input("Enter name: "),input("Family Members: "),int(input("Employee Salary: ")),input("Employee Department: "))
   print("Employee 2: ")
   employee_2 = Employee(input("Enter name: "),input("Family Members: "),int(input("Employee Salary: ")),input("Employee Department: "))
   print("Full Time Employee 1: ")
   employee_3 = Full_time_Employee(input("Enter name: "),input("Family Members: "),int(input("Employee Salary: ")),input("Employee Department: "))
   print("Number of employees: ",Employee.numberOfEmployees)
   list_of_Employees = [employee_1, employee_2]
   avgsalary = averagesalary(list_of_Employees)
   print("Avgerage salary :", avgsalary)
```

O/P:

```
    Employee 1:

    Enter name: Mohith
    Family Members: 4
    Employee Salary: 5000
    Employee Department: IT
    Employee 2:
    Enter name: Jay
    Family Members: 4
    Employee Salary: 10000
    Employee Department: Electric
    Full Time Employee 1:
    Enter name: Deva
    Family Members: 4
    Employee Salary: 100000
    Employee Department: Police
    Number of employees: 3
    Avgerage salary : 7500.0
```

2)

```
import numpy

temp_vector = numpy.random.uniform(1, 20, 20)
print(temp_vector)
print("")
print("")
New_array = temp_vector.reshape(4, 5)
print("")
print(New_array)
New_array[numpy.arange(4), numpy.argmax(New_array, axis=1)] = 0
print("")
print("")
print("")
print(New_array)
```

O/P: