# Neural Networks & Deep Learning Assignment-3

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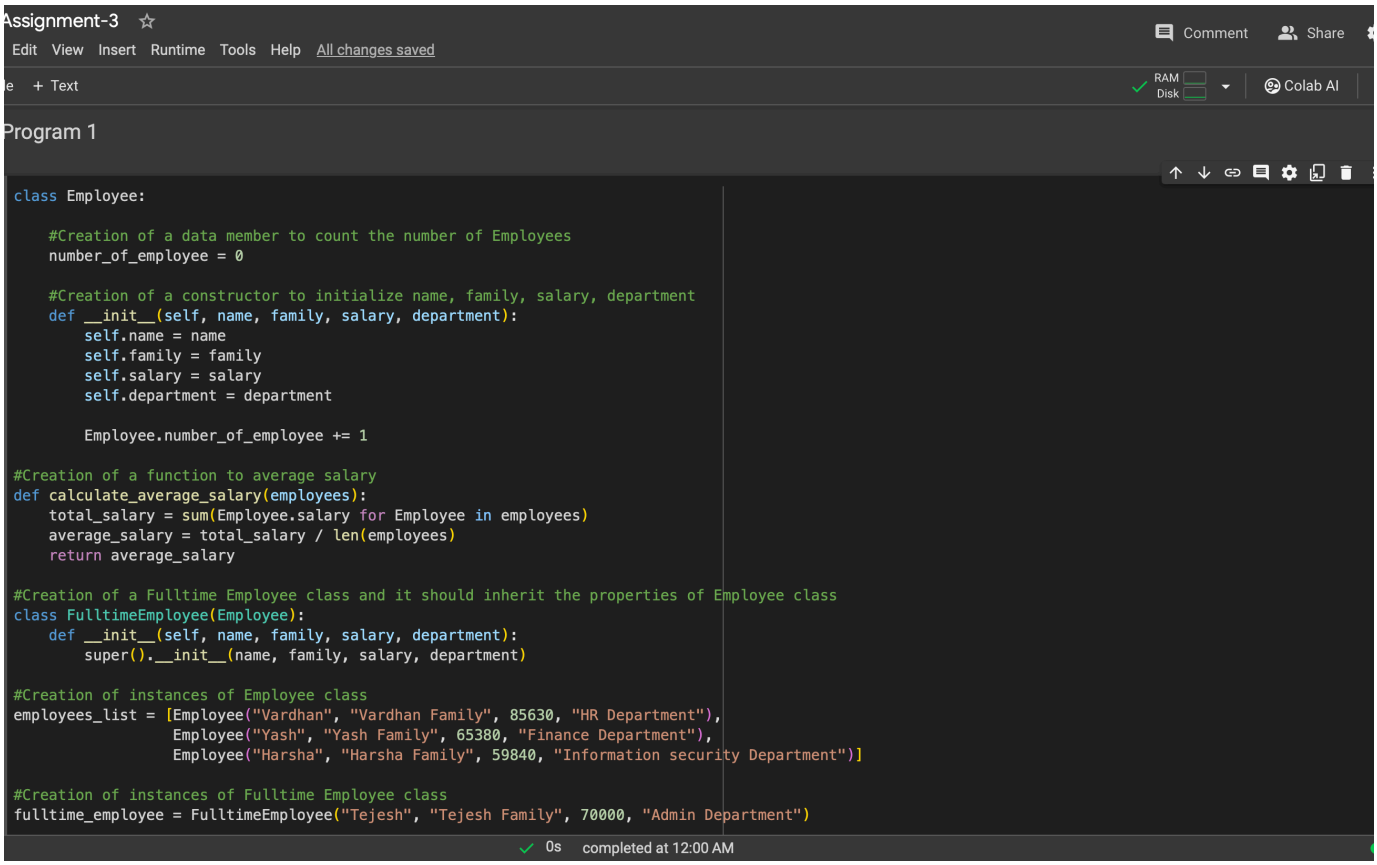
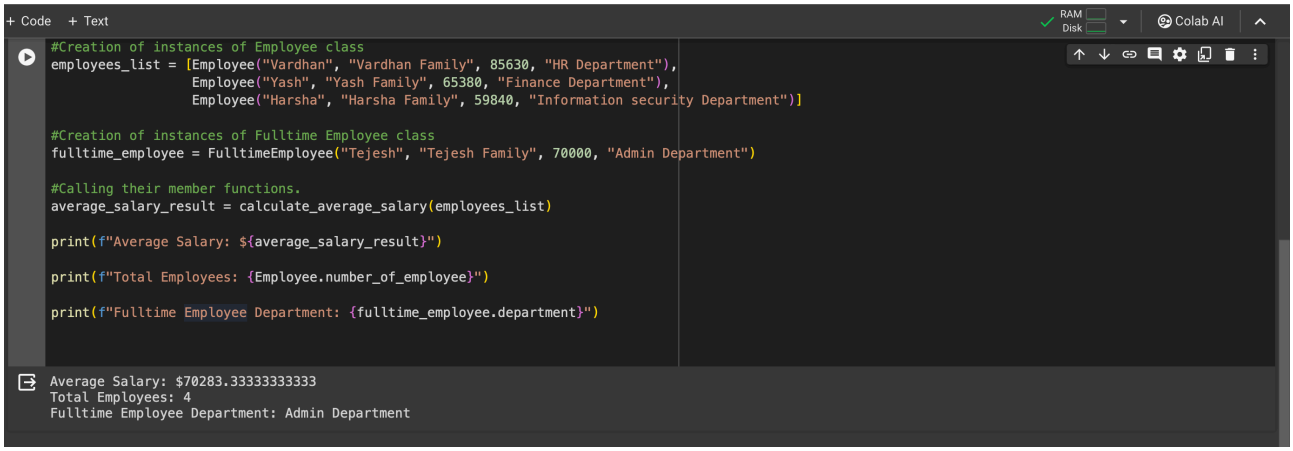
Repository Link :
https://github.com/harshavardhanreddy27/Neual-Network-Assignment---3

Video Link:
https://drive.google.com/file/d/1k_NUDaSO383KIUhP1F8jTnvPgyprx3gM/view?usp=share_link

Code Screenshots:

Question:1

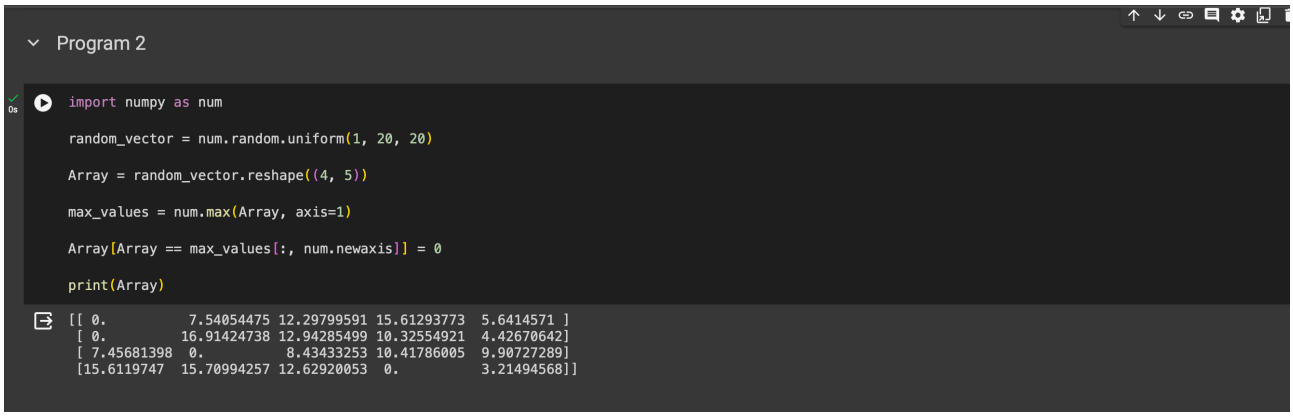




```
#Creation of instances of Employee class
employees_list = [Employee("Vardhan", "Vardhan Family", 85630, "HR Department"),
                  Employee("Yash", "Yash Family", 65380, "Finance Department"),
                  Employee("Harsha", "Harsha Family", 59840, "Information security Department")]

#Creation of instances of Fulltime Employee class
fulltime_employee = FulltimeEmployee("Tejesh", "Tejesh Family", 70000, "Admin Department")

#Calling their member functions.
average_salary_result = calculate_average_salary(employees_list)

print(f"Average Salary: ${average_salary_result}")

print(f"Total Employees: {Employee.number_of_employee}")

print(f"Fulltime Employee Department: {fulltime_employee.department}")
```

```
Average Salary: $70283.33333333333
Total Employees: 4
Fulltime Employee Department: Admin Department
```

# Question : 2



Program 2

```
import numpy as num

random_vector = num.random.uniform(1, 20, 20)

Array = random_vector.reshape((4, 5))

max_values = num.max(Array, axis=1)

Array[Array == max_values[:, num.newaxis]] = 0

print(Array)
```

```
[[ 0.          7.54054475 12.29799591 15.61293773  5.6414571 ]
 [ 0.         16.91424738 12.94285499 10.32554921  4.42670642]
 [ 7.45681398  0.          8.43433253 10.41786005  9.90727289]
 [15.6119747  15.70994257 12.62920053  0.          3.21494568]]
```