Student Program:

class student:

def \_\_init\_\_(self, name, regno, course, marks):

self.studentName = name

self.regno = regno

self.course = course

self.marks = marks

def getStudentDetails(self):

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Student Details\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("---------------------------------------------------------------------")

print("Name", end = "\t\t")

print("Regno", end = "\t\t")

print("Course", end = "\t\t")

print("Marks")

print("---------------------------------------------------------------------")

print(self.studentName, end = "\t\t")

print(self.regno, end = "\t\t")

print(self.course, end = "\t\t")

print(self.marks)

print("---------------------------------------------------------------------")

def getTotal(self):

print("Total Mark is : ",sum(marks))

def getAverage(self):

total = sum(marks)

avg = total / 5

print("Average marks is : ", avg)

def getGrade(self):

total = sum(marks)

avg = total / 5

if avg >= 80 and avg <= 100:

print("A Grade")

elif avg >= 60 and avg < 80:

print("B Grade")

elif avg >= 45 and avg < 60:

print("C Grade")

elif avg >= 35 and avh < 45:

print("D Grade")

elif avg < 35:

print("Fail")

else:

print("Invalid grade")

name = input("Enter sudent name : ")

regno = int(input("Enter regno : "))

course = input("Enter course : ")

marks = []

for i in range(5):

marks.append(int(input("Enter a mark : ")))

student1 = student(name, regno, course, marks)

student1.getStudentDetails()

student1.getTotal()

student1.getAverage()

student1.getGrade()

Employee Program:

class employee():

def \_\_init\_\_(self,empid, name, designation, salary):

self.empid = empid

self.name = name

self.designation = designation

self.salary = salary

def getEmpDetails(self):

print(self.empid, end = "\t\t")

print(self.name, end = "\t\t")

print(self.designation, end = "\t\t\t")

print(self.salary, end = "\t\t")

print(self.getGrossSal(), end = "\t\t\t")

print(self.getNetSal())

print("-------------------------------------------------------------------------------------------------------------------------")

def getGrossSal(self):

DA = 5 / 100 \* self.salary

HRA = 10 / 100 \* self.salary

gross = self.salary + DA + HRA

return gross

def getNetSal(self):

LIC = 3 / 100 \* self.salary

pf = 8 / 100 \* self.salary

deduction = LIC + pf

net = self.getGrossSal() - deduction

return net

empid = []

name = []

designation = []

salary = []

for i in range(5):

empid.append(int(input("Enter empid : ")))

name.append(input("Enter employee name : "))

designation.append(input("Enter Designation : "))

salary.append(float(input("Enter Salary : ")))

emp1 = employee(empid[0], name[0], designation[0], salary[0])

emp2 = employee(empid[1], name[1], designation[1], salary[1])

emp3 = employee(empid[2], name[2], designation[2], salary[2])

emp4 = employee(empid[3], name[3], designation[3], salary[3])

emp5 = employee(empid[4], name[4], designation[4], salary[4])

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Employee Details\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("-------------------------------------------------------------------------------------------------------------------------")

print("\033[1m" + "Emp Id" + "\033[0m", end = "\t\t")

print("\033[1m" + "Name" + "\033[0m", end = "\t\t")

print("\033[1m" + "Designation" + "\033[0m", end = "\t\t\t")

print("\033[1m" + "Salary" + "\033[0m", end = "\t\t")

print("\033[1m" + "Gross Salary" + "\033[0m", end = "\t\t")

print("\033[1m" + "Net Salary" + "\033[0m")

print("-------------------------------------------------------------------------------------------------------------------------")

emp1.getEmpDetails()

emp2.getEmpDetails()

emp3.getEmpDetails()

emp4.getEmpDetails()

emp5.getEmpDetails()