Assignment 1c

Assignment 1c – Read the Birth date of employees from the Employee Record

```
import datetime
import csv
f = open("empbday.csv", 'r')
data = list(csv.reader(f))
print(data)
from datetime import date
def calculateAge(birthdate):
  today= date.today()
  age=today.year-birthdate.year-((today.month, today.day) < (birthdate.month,
birthdate.day))
  return age
bdate=[]
age=[]
dollars=[]
for i in range(len(data)):
  print(data[i][1])
  bdate.append(datetime.datetime.strptime(data[i][3],'%d-%m-%Y').date())
print("birthdate=",bdate)
for i in range(len(data)):
  age.append(calculateAge(bdate[i]))
  dollars.append((float(data[i][4]))/82)
print("Age=",age)
print("salary=",dollars)
```

.csv file

```
empbday.csv × Assignment1c.py

Plugins supporting *.csv files found.

1, Sanvi, Pune, 21-06-2004, 20000
2, Mrunmayee, Pune, 22-06-2004, 40000
3, Jayesh, Nashik, 23-06-2004, 30000
4 Gauri, Nashik, 24-06-2004, 45000
5, Mahesh, Pune, 25-06-2004, 50000
```

OUTPUT:

```
File - Assignment1c
 1 C:\Users\okatk\PycharmProjects\helloworld\venv\
   Scripts\python.exe C:\Users\okatk\AppData\Roaming\
   JetBrains\PyCharmCE2023.1\scratches\Assignment1c.py
 2 [['1', 'Sanvi', 'Pune', '21-06-2004', '20000'], ['2 ', 'Mrunmayee', 'Pune', '22-06-2004', '40000'], ['3
    , 'Jayesh', 'Nashik', '23-06-2004', '30000'], ['4
    ', 'Gauri', 'Nashik', '24-06-2004', '45000'], ['5', '
   Mahesh', 'Pune', '25-06-2004', '50000']]
 3 Sanvi
 4 Mrunmayee
 5 Jayesh
 6 Gauri
 7 Mahesh
 8 birthdate= [datetime.date(2004, 6, 21), datetime.date
   (2004, 6, 22), datetime.date(2004, 6, 23), datetime.
   date(2004, 6, 24), datetime.date(2004, 6, 25)]
 9 Age= [18, 18, 18, 18, 18]
10 salary= [243.90243902439025, 487.8048780487805, 365.
   8536585365854, 548.780487804878, 609.7560975609756]
11
12 Process finished with exit code 0
```

Assignment 1a

Assignment 1a - Find statistical analysis of Employee Records

```
f = open("emp.csv", 'r')
contents = f.read()
lines = contents.split("\n")
eid = []; nm = []; desgn = []; sal = [];
for I in lines:
 words = I.split(",")
 print(words)
 eid.append(int(words[0]))
 nm.append(words[1])
 desgn.append(words[2])
 sal.append(int(words[3]))
print("Employee IDs : ",eid)
print("Employee Names : ",nm)
print("Employee Designations : ",desgn)
print("Employee Salaries : ",sal)
#Max Salary
print("Maximum Salary : ",max(sal))
#Employee whose Disignation is Manager
print("Employee whose Disignation is Manager : ",end=")
```

```
for i in range(len(desgn)):
 if desgn[i] == "Manager" or desgn[i] == "manager" :
  print(nm[i],end= " ")
#Employee whose Salary is 100000
print("Employee whose Salary is 100000 : ",nm[sal.index(100000)])
#Employee whose Salary is Minimum
print("\nEmployee whose Salary is Minimum : ",nm[sal.index(min(sal))])
#Employee whose Disignation is Supervisor
print("Employee whose Disignation is Supervisor : ",end=")
for i in range(len(desgn)):
 if desgn[i] == "Supervisor" or desgn[i] == "supervisor" :
  print(nm[i],end= " ")
f = 0
#Employee whose Salary is 50000
for i in range(len(sal)):
 if sal[i] == 50000:
  print("\nEmployee whose Salary is 50000 : ",nm[i])
if(f==0):
 print("\nNo Employee present whose Salary is 50000 ")
```

.csv file

OUTPUT:

```
1 C:\Users\okatk\PycharmProjects\helloworld\venv\
   Scripts\python.exe C:\Users\okatk\AppData\Roaming\
   JetBrains\PyCharmCE2023.1\scratches\assignment1.py
 2 ['1', 'Fating', 'Manager', '100000']
 3 ['2', 'Karne', 'Supervisior', '95000']
 4 ['3', 'Kotwal', 'Employee', '70000']
 5 ['4', 'Mandlik', 'HR', '80000']
 6 ['5', 'Koli', 'CA', '85000']
7 Employee IDs : [1, 2, 3, 4, 5]
 8 Employee Names : ['Fating', 'Karne', 'Kotwal', '
   Mandlik', 'Koli']
 9 Employee Designations : ['Manager', 'Supervisior', '
   Employee', 'HR', 'CA']
10 Employee Salaries : [100000, 95000, 70000, 80000,
   85000]
11 Maximum Salary : 100000
12 Employee whose Disignation is Manager : Fating
   Employee whose Salary is 100000 : Fating
13
14 Employee whose Salary is Minimum : Kotwal
15 Employee whose Disignation is Supervisor :
16 No Employee present whose Salary is 50000
17
18 Process finished with exit code 0
```

Assignment 1b

Assignment 1b - Merging Records

```
f1 = open("empo.csv", 'r')
f2 = open("sal.csv", 'r')
f3 = open("empo_sal.csv", 'w')
contents1 = f1.read()
contents2 = f2.read()
print(contents1)
print(contents2)
nm = []
sal = []
lines1 = contents1.split("\n")
lines2 = contents2.split("\n")
for l1 in lines1:
words1 = l1.split(",")
for I2 in lines2:
words2 = I2.split(",")
if(words1[0] == words2[0]):
11 = 11 + "," + words2[1] + "," + words2[2] + "\n"
f3.write(I1)
nm.append(words1[1])
sal.append(int(words2[2]))
print(I1)
f1.close()
```

```
f2.close()
f3.close()
```

print(nm)
print(sal)

.csv file a

.csv file b

OUTPUT:

```
File - assignment_1b
 1 C:\Users\okatk\PycharmProjects\helloworld\venv\
   Scripts\python.exe C:\Users\okatk\AppData\Roaming\
   JetBrains\PyCharmCE2023.1\scratches\assignment_1b.py
 2 1, Fating, Nanded
 3 2, Karne, Pune
 4 3, Kotwal, Nashik
 5 4, Mandlik, Mumbai
 6 5, Koli, Lonavala
 7 1, Manager, 100000
 8 2, Supervisior, 95000
 9 3, Employee, 70000
10 4, HR, 80000
11 5,CA,85000
12 1, Fating, Nanded, Manager, 100000
13
14 2, Karne, Pune, Supervisior, 95000
15
16 3, Kotwal, Nashik, Employee, 70000
17
18 4, Mandlik, Mumbai, HR, 80000
19
20 5, Koli, Lonavala, CA, 85000
21
22 ['Fating', 'Karne', 'Kotwal', 'Mandlik', 'Koli']
23 [100000, 95000, 70000, 80000, 85000]
24
25 Process finished with exit code 0
```