

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
i Plugins supporting *.csv files found.
1 1, Sanvi, Pune, 21-06-2004, 20000
2 2, Mrunmayee, Pune, 22-06-2004, 40000
3 3, Jayesh, Nashik, 23-06-2004, 30000
4 4, Gauri, Nashik, 24-06-2004, 45000
5 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 l in lines:
    words = l.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(design)):
    if design[i] == "Manager" or design[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 Designation is Supervisor

print("Employee whose Designation is Supervisor : ",end="")
for i in range(len(design)):
    if design[i] == "Supervisor" or design[i] == "supervisor" :
        print(nm[i],end= " ")

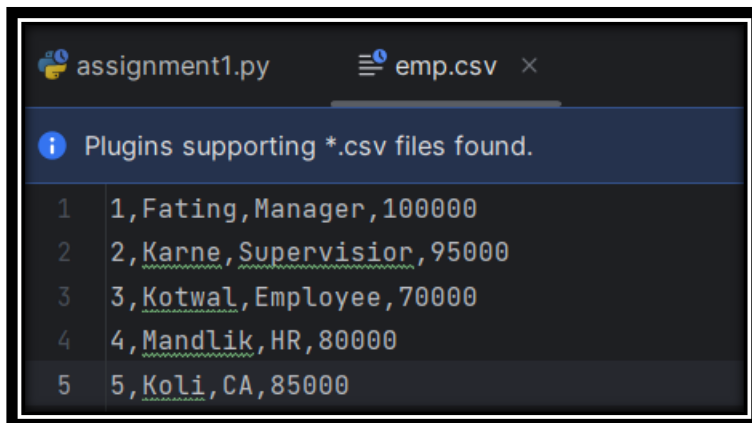
f = 0
#Employee whose Salary is 50000

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 ")

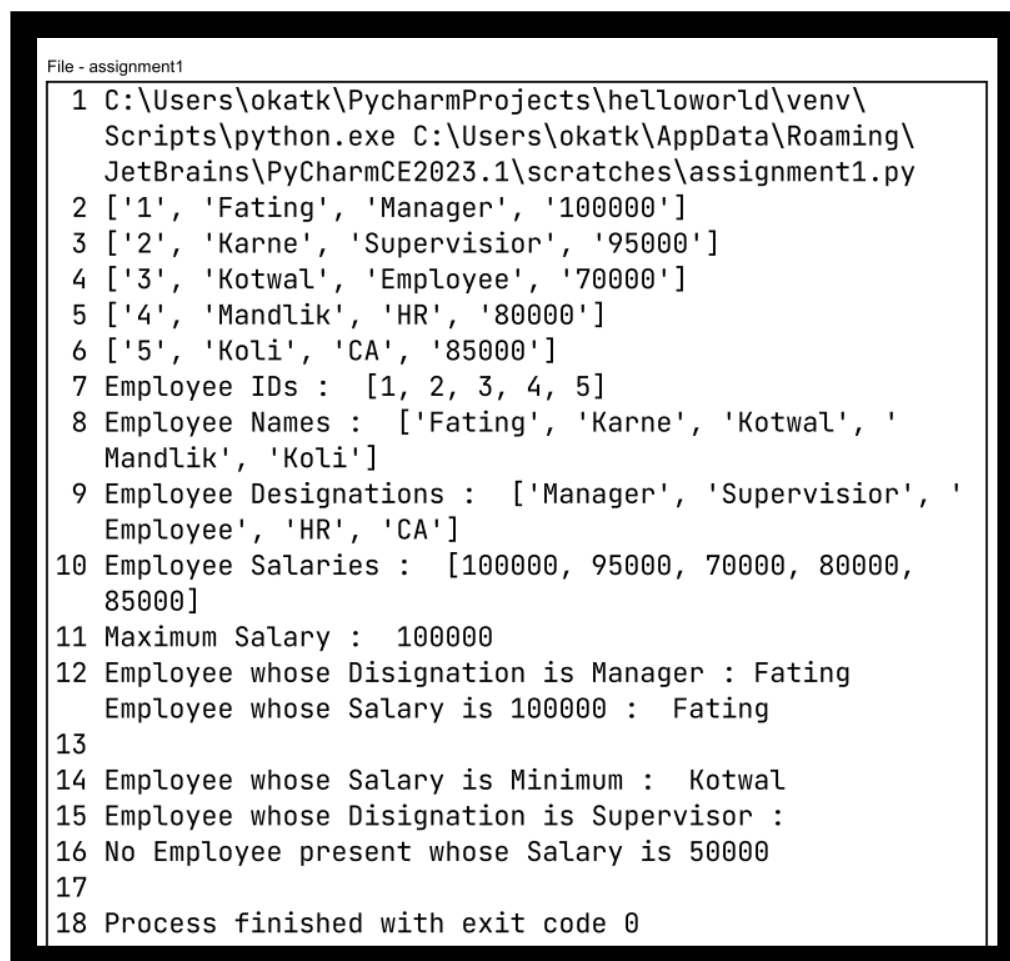
```

.csv file



```
assignment1.py  emp.csv x
i Plugins supporting *.csv files found.
1 1,Fating,Manager,100000
2 2,Karne,Supervisor,95000
3 3,Kotwal,Employee,70000
4 4,Mandlik,HR,80000
5 5,Koli,CA,85000
```

OUTPUT :



```
File - assignment1
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', 'Supervisor', '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', 'Supervisor', '
  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("emp.csv", 'r')
f2 = open("sal.csv", 'r')
f3 = open("emp_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 l2 in lines2:
        words2 = l2.split(",")
        if(words1[0] == words2[0]):
            l1 = l1 + "," + words2[1] + "," + words2[2] + "\n"
        f3.write(l1)

    nm.append(words1[1])
    sal.append(int(words2[2]))
    print(l1)
f1.close()
```

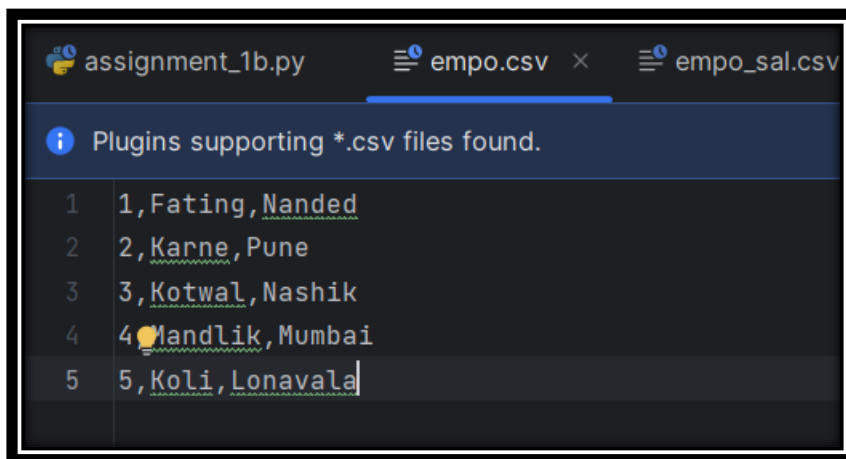
```
f2.close()
```

```
f3.close()
```

```
print(nm)
```

```
print(sal)
```

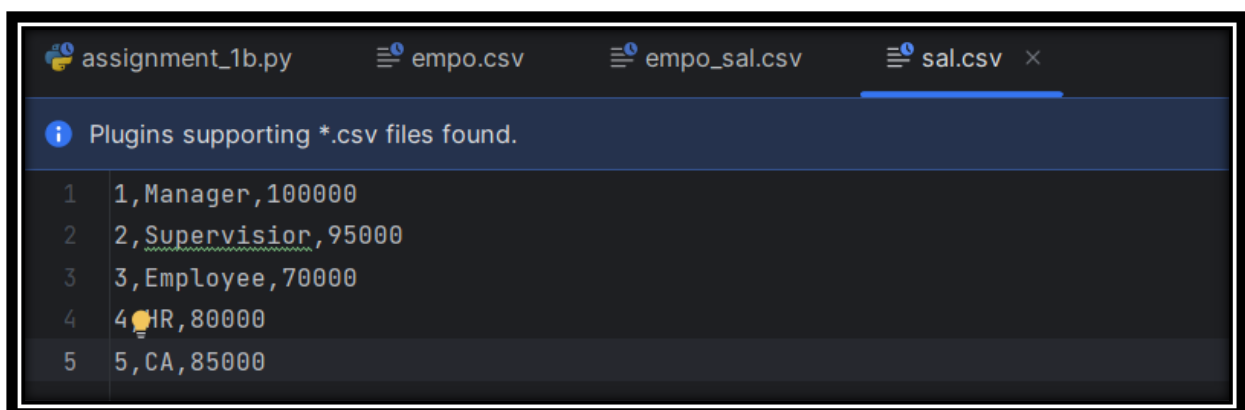
.csv file a



The screenshot shows a code editor with three tabs: 'assignment_1b.py', 'empo.csv', and 'empo_sal.csv'. The 'empo.csv' tab is active. A message bar at the top says 'Plugins supporting *.csv files found.' Below it, a table displays the contents of the CSV file.

1	1,Fating,Nanded
2	2,Karne,Pune
3	3,Kotwal,Nashik
4	4,Mandlik,Mumbai
5	5,Koli,Lonavala

.csv file b



The screenshot shows a code editor with four tabs: 'assignment_1b.py', 'empo.csv', 'empo_sal.csv', and 'sal.csv'. The 'sal.csv' tab is active. A message bar at the top says 'Plugins supporting *.csv files found.' Below it, a table displays the contents of the CSV file.

1	1,Manager,100000
2	2,Supervisor,95000
3	3,Employee,70000
4	4,HR,80000
5	5,CA,85000

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,Supervisor,95000  
9 3,Employee,70000  
10 4,HR,80000  
11 5,CA,85000  
12 1,Fating,Nanded,Manager,100000  
13  
14 2,Karne,Pune,Supervisor,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
```