In [1]:
```
import openpyxl
import pandas as pd
```

In [131…
```
workbook = openpyxl.Workbook()
sheet = workbook.active
empData = [
    ['Name', 'Domain', 'Age', 'Location', 'Salary', 'Experience'],
    ['Alex','Python','28','Hyderabad','50000','2 Years'],
    ['Radha','SAP','29','Hyderabad','300000','3 Years'],
    ['Priya','Java','34','Mumbai','219089','4 Years'],
    ['Hari','Web Development','28','Banglore','700000', '12 Years'],
    ['kranthi','HTML/CSS','28','Hyderabad','8090000','4 Years']
]
for row in empData:
    sheet.append(row)
workbook.save('empData.xlsx')
empData
```

Out[131…
```
[['Name', 'Domain', 'Age', 'Location', 'Salary', 'Experience'],
 ['Alex', 'Python', '28', 'Hyderabad', '50000', '2 Years'],
 ['Radha', 'SAP', '29', 'Hyderabad', '300000', '3 Years'],
 ['Priya', 'Java', '34', 'Mumbai', '219089', '4 Years'],
 ['Hari', 'Web Development', '28', 'Banglore', '700000', '12 Years'],
 ['kranthi', 'HTML/CSS', '28', 'Hyderabad', '8090000', '4 Years']]
```

In [21]:
```
# to know where the xlxs file saved
import os
os.getcwd()
```

Out[21]:
```
'/Users/babarhussain/Numpy'
```

In [65]:
```
# to see the execel format data/Read the data
empD = pd.read_excel(r'/Users/babarhussain/Numpy/empData.xlsx')
empD
```

Out[65]:

	Name	Domain	Age	Location	Salary	Experience
0	Alex	Python	28	Hyderabad	50000	2 Years
1	Radha	SAP	29	Hyderabad	300000	3 Years
2	Priya	Java	34	Mumbai	219089	4 Years
3	Hari	Web Development	28	Banglore	700000	12 Years
4	kranthi	HTML/CSS	28	Hyderabad	8090000	4 Years

In [67]:
```
empD.shape
```

Out[67]:
```
(5, 6)
```

In [71]:
```
len(empD.columns)
```

Out[71]:
```
6
```

In [77]:
```
len(empD)
```

Out[77]:
```
5
```

In [79]:
```
empD['Salary']
```

Out[79]:
```
0      50000
1     300000
2     219089
3     700000
4    8090000
Name: Salary, dtype: int64
```

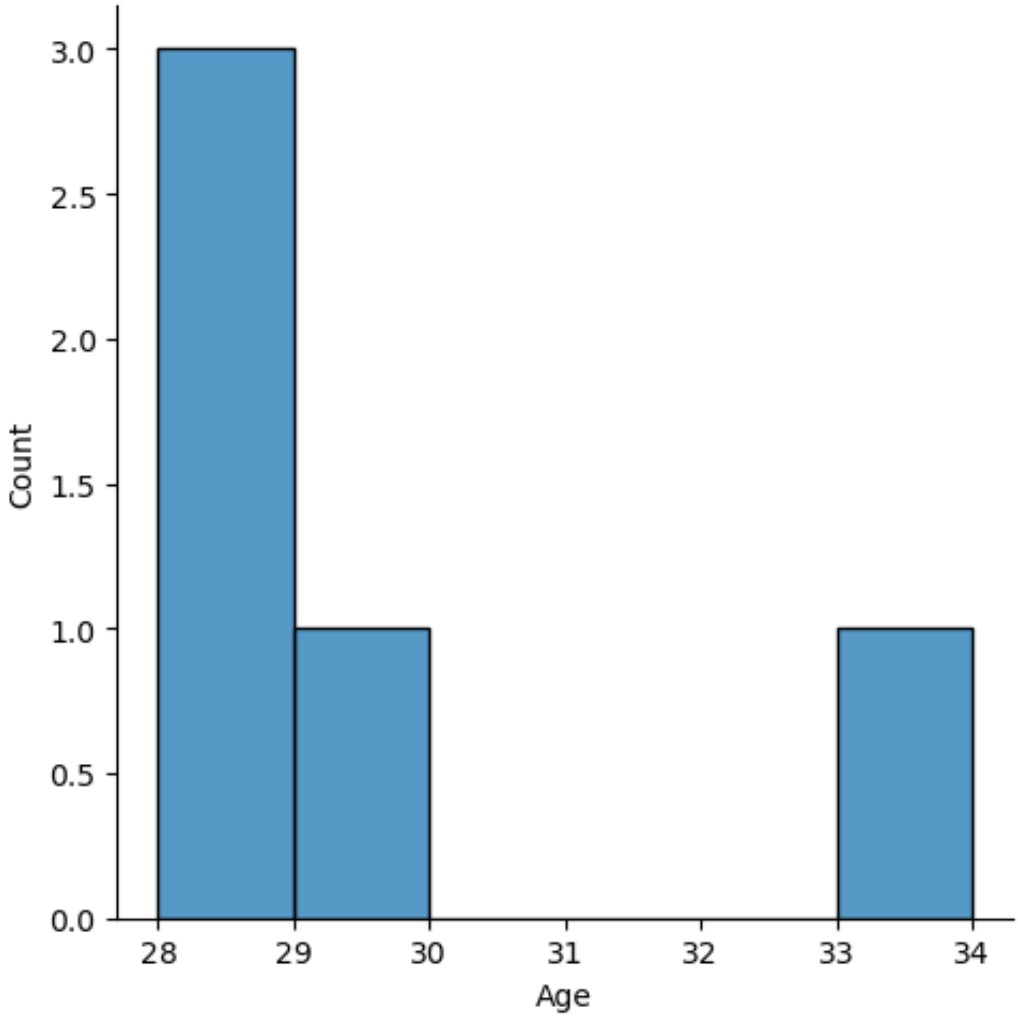
In [85]:
```
empD[['Salary','Age']]
```

Out[85]:

	Salary	Age
0	50000	28
1	300000	29
2	219089	34
3	700000	28
4	8090000	28

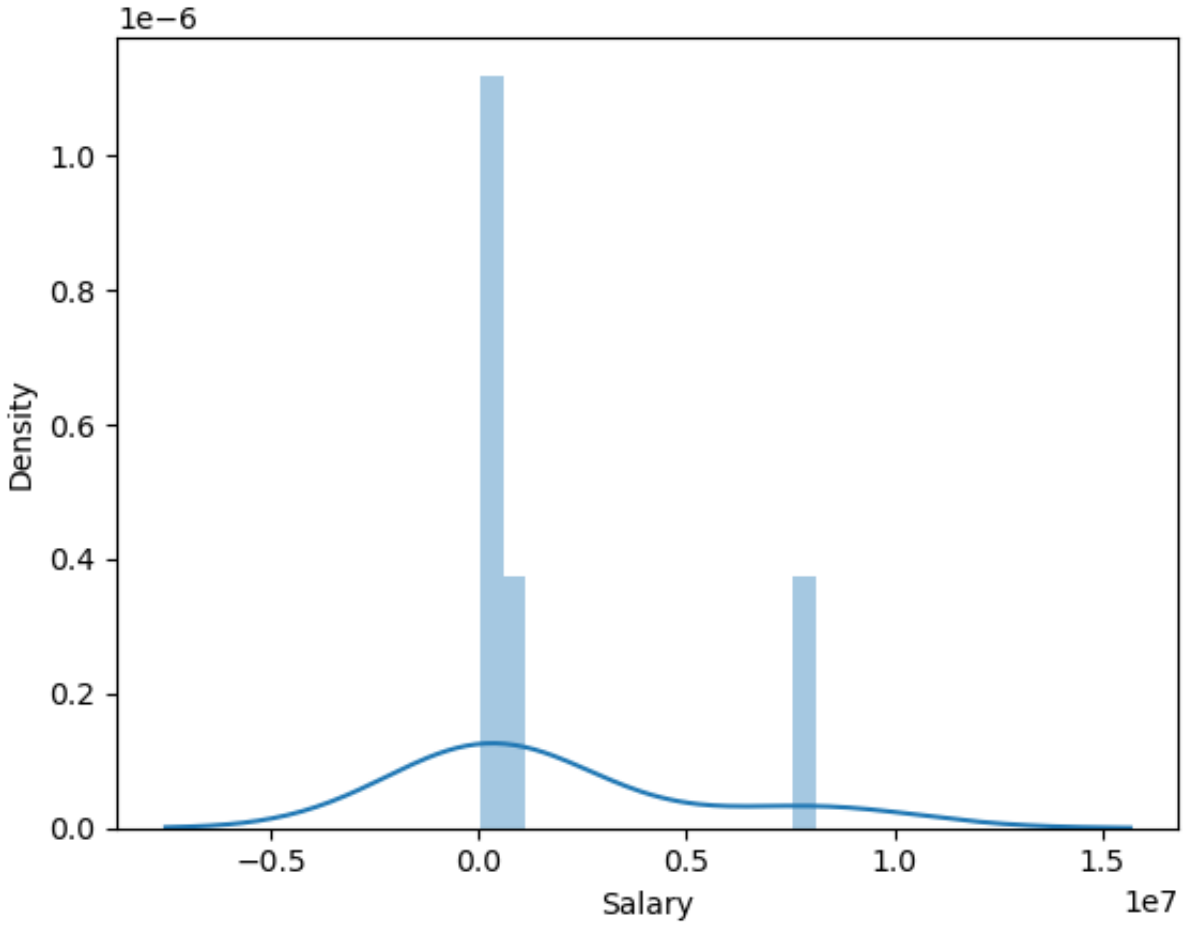
In [89]:
```
import numpy as np
import matplotlib.pyplot as plt
import seaborn as ss
```

In [91]:
```
empAge = ss.displot(empD['Age'])
```



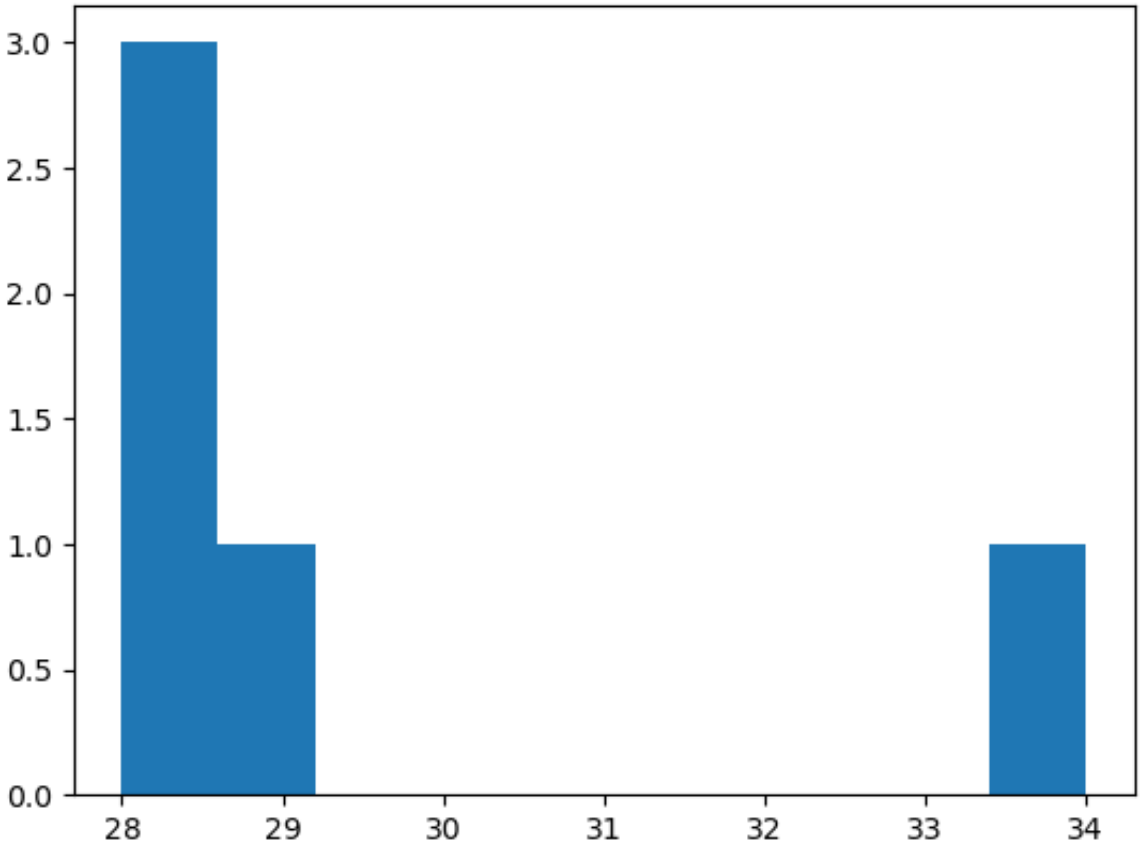
In [97]:
```
empSal = ss.distplot(empD['Salary'])
```

```
/var/folders/n4/9fb88mxd4g56nzmtw5s0l00c0000gn/T/ipykernel_1061/117966601.
py:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.
0.

Please adapt your code to use either `displot` (a figure-level function wi
th
similar flexibility) or `histplot` (an axes-level function for histogram
s).

For a guide to updating your code to use the new functions, please see
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

  empSal = ss.distplot(empD['Salary'])
```

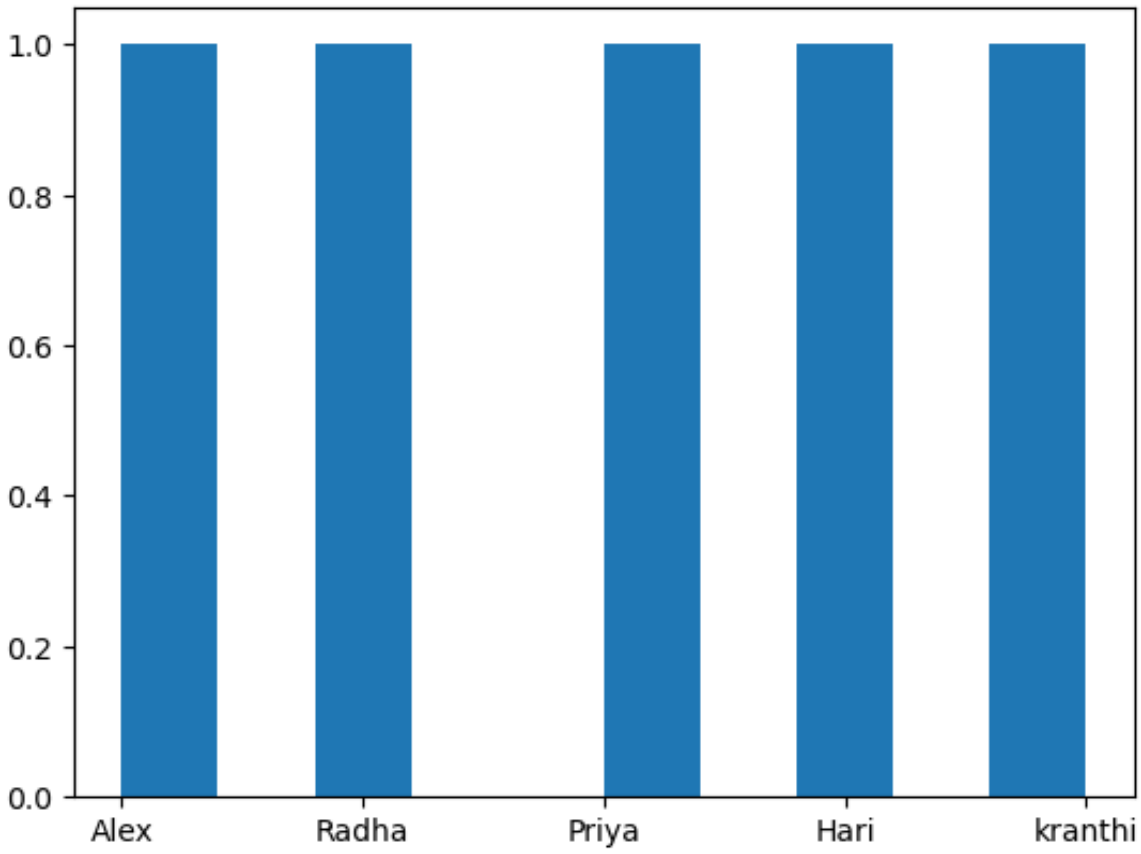


In [103…

```
# now do with matplotlib

empA = plt.hist(empD['Age'])
```



In [107…
```
empN = plt.hist(empD['Name'])
```



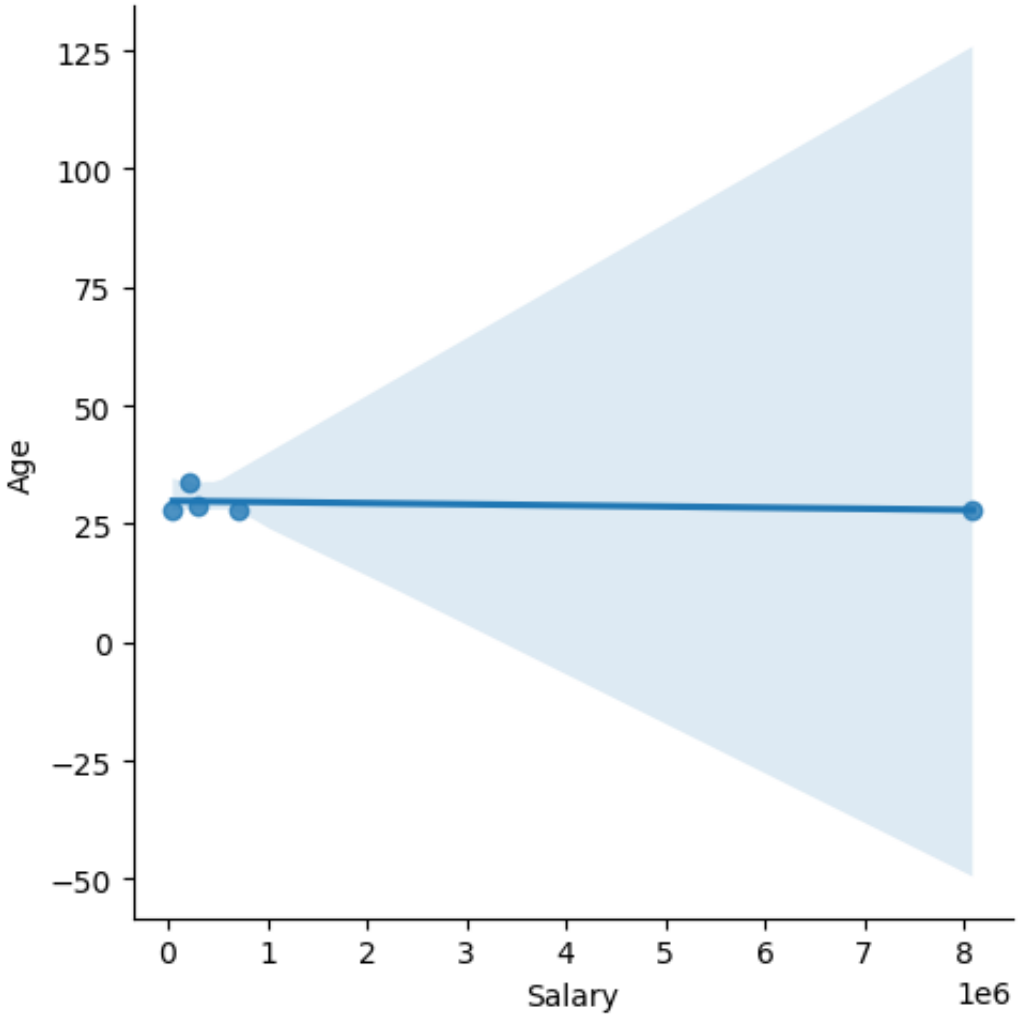
In [115…
```
empD
```

Out[115…

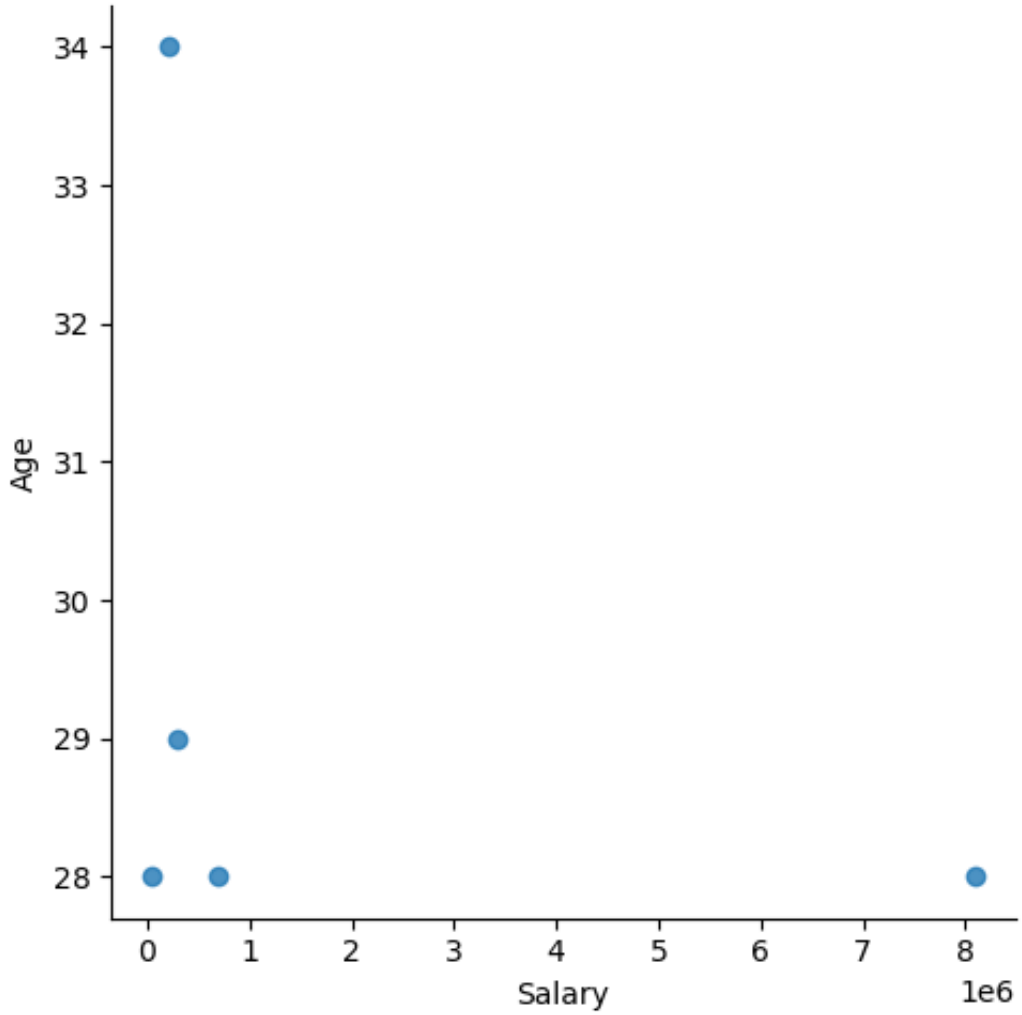
	Name	Domain	Age	Location	Salary	Experience
0	Alex	Python	28	Hyderabad	50000	2 Years
1	Radha	SAP	29	Hyderabad	300000	3 Years
2	Priya	Java	34	Mumbai	219089	4 Years
3	Hari	Web Development	28	Banglore	700000	12 Years
4	kranthi	HTML/CSS	28	Hyderabad	8090000	4 Years

In [117…
```
plt.rcParams['figure.figsize'] = 5,1
```

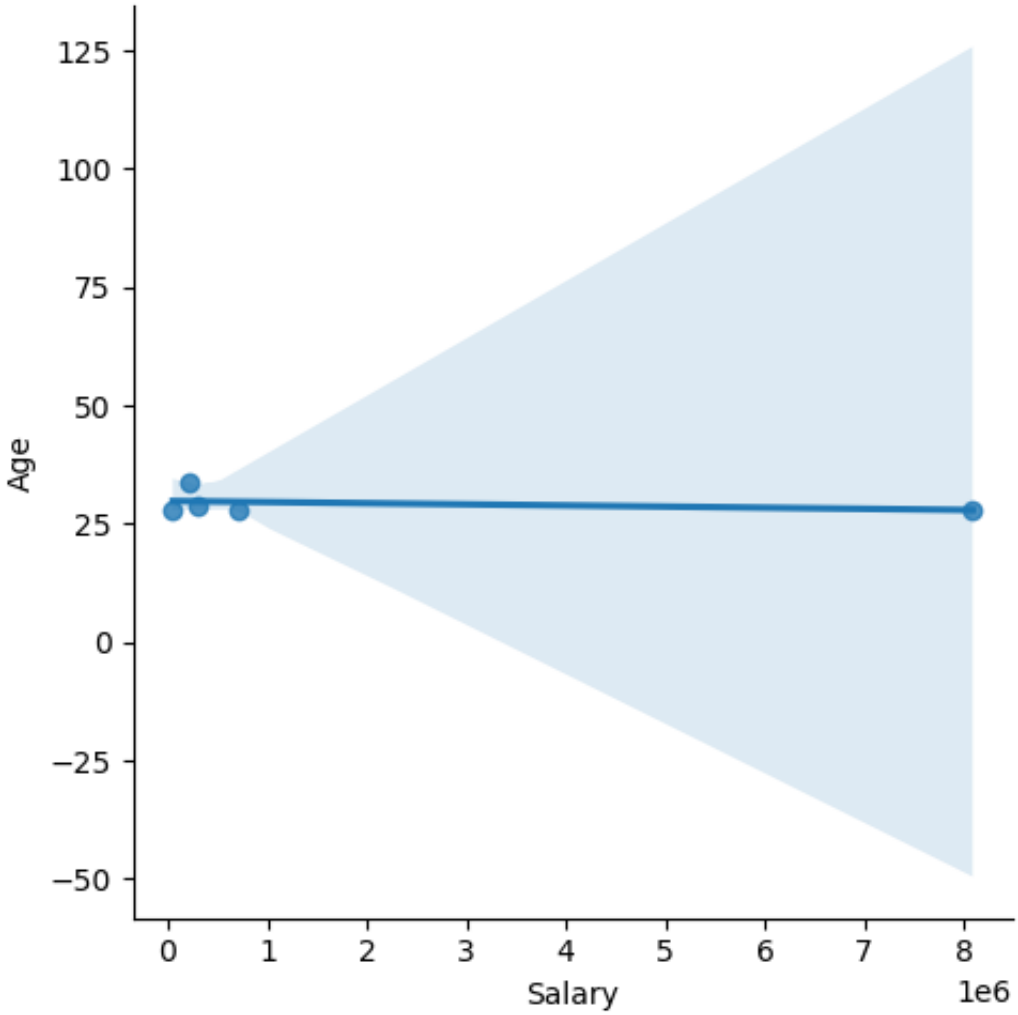
In [125…
```
newplt = ss.lmplot(data=empD, x ='Salary', y= 'Age')
```



In [127…
```
newplt = ss.lmplot(data=empD, x ='Salary', y= 'Age', fit_reg = False)
```



In [129…
```
newplt = ss.lmplot(data=empD, x ='Salary', y= 'Age', fit_reg = True)
```



In [ ]:

In [ ]: