assignment1

June 22, 2023

[2]:
```
import pandas as pd

employee_data = {
    'id': [1, 2, 3],
    'name': ['Snehankit', 'Aniket', 'Sai'],
    'birthdate': ['1990-01-01', '1995-02-01', '1992-03-01']
}

salary_data = {
    'id': [1, 2, 3],
    'salary': [10000, 20000, 15000]
}

employees = pd.DataFrame(employee_data)
salaries = pd.DataFrame(salary_data)

merged_data = pd.merge(employees, salaries, on='id')

sorted_data = merged_data.sort_values(by='salary', ascending=True)

def get_top_employees(dataframe, n):
    return dataframe.nlargest(n, 'salary')

top_employees = get_top_employees(sorted_data, 5)

print(top_employees)
```

```
   id       name   birthdate  salary
1   2     Aniket  1995-02-01   20000
2   3        Sai  1992-03-01   15000
0   1  Snehankit  1990-01-01   10000
```

[4]:
```
import pandas as pd

data = {
    'id': [1, 2, 3],
    'name': ['Snehankit', 'Aniket', 'Sai'],
    'birthdate': ['1990-01-01', '1995-02-01', '1992-03-01'],
```

```
    'salary': [10000, 20000, 15000]
}

df = pd.DataFrame(data)

df['birthdate'] = pd.to_datetime(df['birthdate'])
df['age'] = (pd.to_datetime('now') - df['birthdate']).astype('<m8[Y]')
df['salary'] = df['salary'] / 74

print(df)
```

```
   id       name  birthdate      salary   age
0   1  Snehankit 1990-01-01  135.135135  33.0
1   2     Aniket 1995-02-01  270.270270  28.0
2   3        Sai 1992-03-01  202.702703  31.0
```

```
<ipython-input-4-d60b42b058a5>:13: FutureWarning: The parsing of 'now' in
pd.to_datetime without `utc=True` is deprecated. In a future version, this will
match Timestamp('now') and Timestamp.now()
  df['age'] = (pd.to_datetime('now') - df['birthdate']).astype('<m8[Y]')
```