```
import pandas as pd
```

```
from google.colab import drive
drive.mount('/content/gdrive')
```

```
Drive already mounted at /content/gdrive; to attempt to forcibly remount, call drive.mou
```

```
data=pd.read_table("/content/gdrive/MyDrive/Person.txt",delim_whitespace=True)
print(data)
```

```
   Age agegroup  height   status  yearsmarried
0   21    adult     6.0   single            -1
1    2    child     3.0  married             0
2   18    adult     5.7  married            20
3  221  elderly     5.0  widowed             2
4   34    child    -7.0  married             3
```

```
def check_age_range(data):
  age_range = lambda r: r in range(151) #r>=0 and r<=150
  return data['Age'].apply(age_range).rename('Check Age Range')
```

```
def check_age(data):
  age_limit = lambda r: r[0] > r[4]
  return data.apply(age_limit,axis=1).rename("Check Age")
```

```
def check_status(data):
  status_value= lambda r: r in data["status"].values
  return data['status'].apply(status_value).rename("Check status")
```

```
def check_age_group(data):
  age_group = lambda x: (x[0] in range(18) and x[1]=="child") or (x[0] in range(18,66) and x[
  return data[['Age', 'agegroup']].apply(age_group, axis =1).rename("Check age group")
```

```
 E={"check_age_range":check_age_range, "check_age_limit":check_age, "check_status_value":chec
result=list()
```

```
for i in E.keys():
#print(result)
#print(E[i](data))
  result.append(E[i](data))
print("Number of violations by people:")
```

```
print( Number of voilations by peoples: )
print(len(result)-sum(result))
```

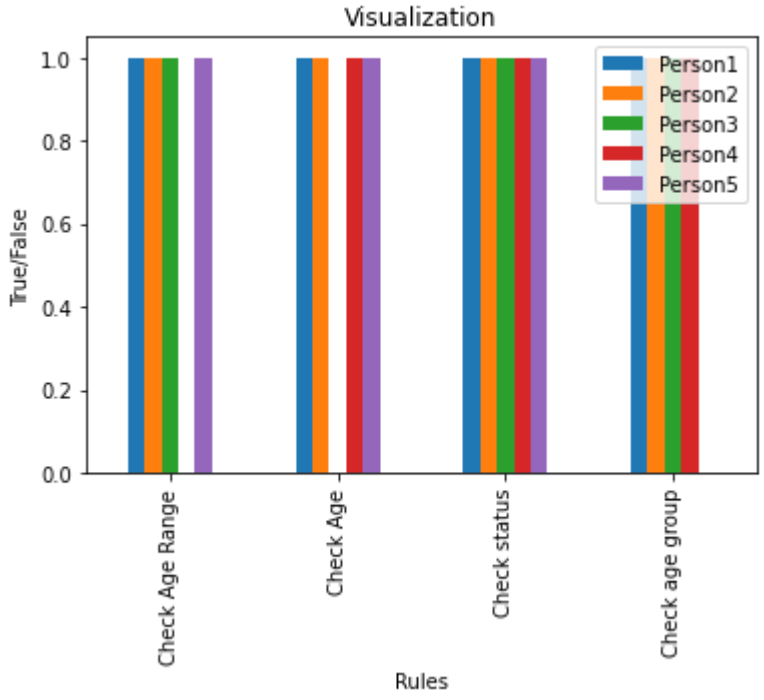
```
Number of voilations by peoples:
0    0
1    0
2    1
3    1
4    1
dtype: int64
```

```
result=pd.DataFrame(result)
 print(result.describe())
```

```
              0     1     2     3     4
count         4     4     4     4     4
unique        1     1     2     2     2
top        True  True  True  True  True
freq          4     4     3     3     3
```

```
import matplotlib.pyplot as plt
result.astype(int).plot(kind='bar')
plt.title("Visualization")
plt.xlabel('Rules')
plt.ylabel('True/False')
plt.legend(['Person1','Person2','Person3','Person4','Person5'])
```

```
<matplotlib.legend.Legend at 0x7f21ff314810>
```



+ Code + Text