

DAY 16

```
import pandas as pd
```

```
df=pd.read_csv('Social_Network.csv')
```

```
def func(Age):
```

```
    if Age>25:
```

```
        return Age
```

```
    else:
```

```
        return 'too young'
```

```
df['encoded']=df['Age'].apply(func)
```

```
df['new']=df['Age']*10
```

```
url='https://archive.ics.uci.edu/ml/machine-learning-databases/adult/adult.data'
```

```
df1=pd.read_csv(url,header=None)
```

```
df1.to_excel('test.xlsx')
```

```
df1[[1,3,8]].to_excel('selected.xlsx')
```

```
df2=pd.read_excel('test.xlsx')
```

```
df1.to_html('new.html')
```

```
df3=pd.read_csv('SMSSpamCollection.txt',
```

```
    sep='\t',header=None,names=['type of message','message'])
```

```
df3['type of message'].str.upper()
```

```
df3['message'][1].replace('...','*')
```

```
con=df3['type of message']=='spam'
```

```
df4=df3[con]
```

```
con1=df3['message'].str.contains('stock')
```

```
df5=df3[con1]
```

o/p

```
import pandas as pd
```

```
url='https://archive.ics.uci.edu/ml/machine-learning-databases/adult/adult.data'
```

```
df1=pd.read_csv(url,header=None)
```

```
df1.to_excel('test.xlsx')
```

```
df1[[1,3,8]].to_excel('selected.xlsx')
```

```
pd.read_excel('test.xlsx')
```

```
Out[6]:
```

```
      Unnamed: 0  0      1 ... 12      13  14
0      0 39      State-gov ... 40  United-States  <=50K
1      1 50  Self-emp-not-inc ... 13  United-States  <=50K
2      2 38      Private ... 40  United-States  <=50K
3      3 53      Private ... 40  United-States  <=50K
4      4 28      Private ... 40      Cuba  <=50K
... ..
32556  32556 27      Private ... 38  United-States  <=50K
32557  32557 40      Private ... 40  United-States  >50K
32558  32558 58      Private ... 40  United-States  <=50K
32559  32559 22      Private ... 20  United-States  <=50K
32560  32560 52  Self-emp-inc ... 40  United-States  >50K
```

```
[32561 rows x 16 columns]
```

```
df2=pd.read_excel('test.xlsx')
```

```
df1.to_html('new.html')
```

```
df3=pd.read_csv('SMSSpamCollection.txt',
                sep='\t',header=None)
```

```
df3=pd.read_csv('SMSSpamCollection.txt',
                sep='\t',header=None,names=['type of message','message'])
```

```
df3['type of message'].str.upper()
```

```
Out[13]:
```

```
0    HAM
1    HAM
2   SPAM
3    HAM
4    HAM
```

```
5567  SPAM
```

```
5568  HAM
```

```
5569  HAM
```

```
5570  HAM
```

```
5571  HAM
```

```
Name: type of message, Length: 5572, dtype: object
```

```
df3['message'][1]
```

```
Out[14]: 'Ok lar... Joking wif u oni...'
```

```
df3['message'][1].replace('...','*')
```

```
Out[15]: 'Ok lar* Joking wif u oni*'
```

```
con=data['type of message']=='spam'
```

```
df3[con]
```

```
Out[17]:
```

type of message	message
-----------------	---------

2	spam	Free entry in 2 a wkly comp to win FA Cup fina...
5	spam	FreeMsg Hey there darling it's been 3 week's n...
8	spam	WINNER!! As a valued network customer you have...
9	spam	Had your mobile 11 months or more? U R entitle...
11	spam	SIX chances to win CASH! From 100 to 20,000 po...
...		...
5537	spam	Want explicit SEX in 30 secs? Ring 02073162414...
5540	spam	ASKED 3MOBILE IF 0870 CHATLINES INCLU IN FREE ...
5547	spam	Had your contract mobile 11 Mnths? Latest Moto...
5566	spam	REMINDER FROM O2: To get 2.50 pounds free call...
5567	spam	This is the 2nd time we have tried 2 contact u...

[747 rows x 2 columns]

```
df4=df3[con]
```

```
con1=df3['message'].str.contains('stock')
```

```
df5=df3[con1]
```