

```
In [1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

C:\Users\bearm\AppData\Local\Temp\ipykernel_6276\2151744951.py:1: DeprecationWarning:
Pyarrow will become a required dependency of pandas in the next major release of pandas (pandas 3.0),
(to allow more performant data types, such as the Arrow string type, and better interoperability with other libraries)
but was not found to be installed on your system.
If this would cause problems for you,
please provide us feedback at <https://github.com/pandas-dev/pandas/issues/54466>

```
import pandas as pd
```

```
In [2]: df = pd.read_csv('mental_health_finaldata_1.csv')
```

```
In [3]: df.describe()
```

```
Out[3]:
```

	Age	Gender	Occupation	Days_Indoors	Growing_Stress	Quarantine_Frustrations
count	824	824	824	824	824	824
unique	4	2	5	5	3	3
top	30- Above	Female	Housewife	31-60 days	Yes	Yes
freq	222	434	185	171	301	304

```
In [4]: #get columns from data frame
df.columns
```

```
Out[4]: Index(['Age', 'Gender', 'Occupation', 'Days_Indoors', 'Growing_Stress',
               'Quarantine_Frustrations', 'Changes_Habits', 'Mental_Health_History',
               'Weight_Change', 'Mood_Swings', 'Coping_Struggles', 'Work_Interest',
               'Social_Weakness'],
              dtype='object')
```

```
In [5]: #view each unique value in each column
for column in df.columns:
    print(column, ' columns are : ', df[column].unique())
```

Age columns are : ['20-25' '30-Above' '25-30' '16-20']
 Gender columns are : ['Female' 'Male']
 Occupation columns are : ['Corporate' 'Others' 'Student' 'Housewife' 'Business']
 Days_Indoors columns are : ['1-14 days' '31-60 days' 'Go out Every day' 'More than 2 months'
 '15-30 days']
 Growing_Stress columns are : ['Yes' 'No' 'Maybe']
 Quarantine_Frustrations columns are : ['Yes' 'No' 'Maybe']
 Changes_Habits columns are : ['No' 'Maybe' 'Yes']
 Mental_Health_History columns are : ['Yes' 'No' 'Maybe']
 Weight_Change columns are : ['Yes' 'No' 'Maybe']
 Mood_Swings columns are : ['Medium' 'High' 'Low']
 Coping_Struggles columns are : ['No' 'Yes']
 Work_Interest columns are : ['No' 'Maybe' 'Yes']
 Social_Weakness columns are : ['Yes' 'No' 'Maybe']

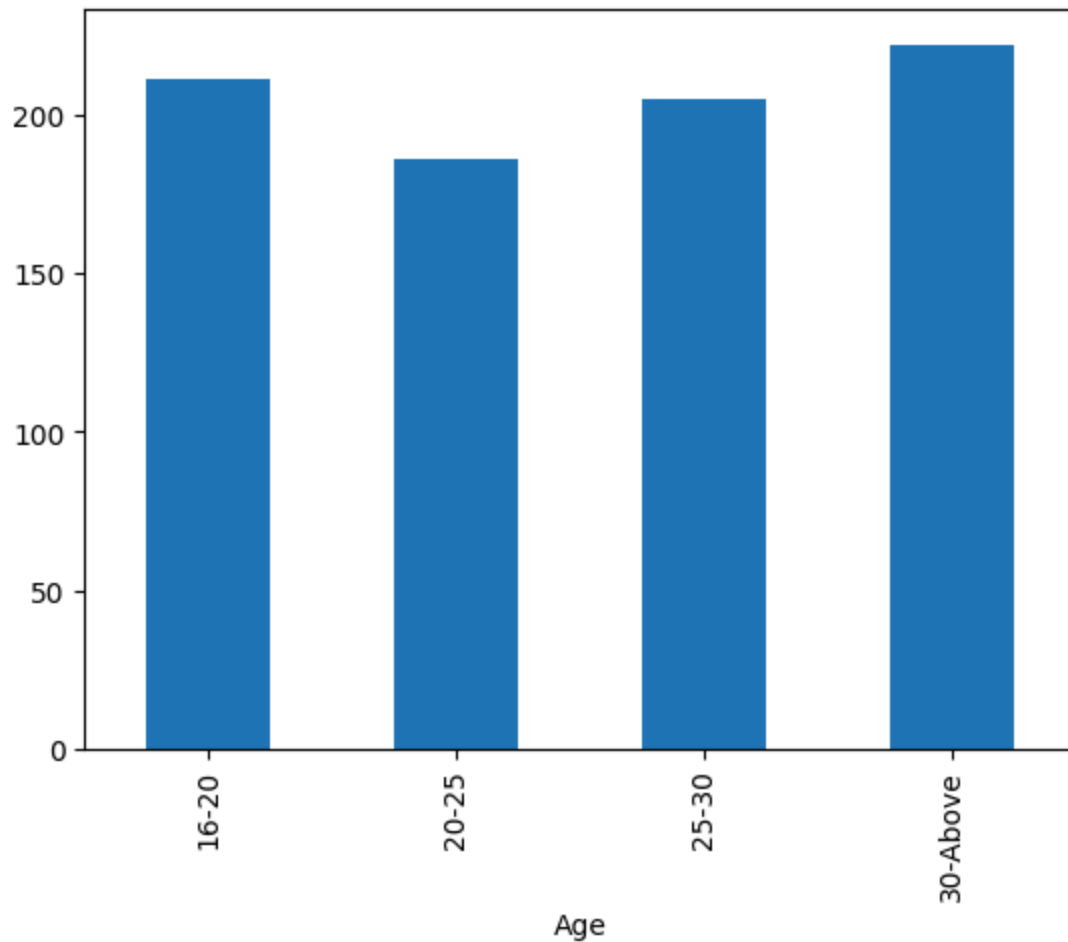
In [6]: *#view count of each unique value in column*
`df['Age'].value_counts()`

Out[6]: Age
 30-Above 222
 16-20 211
 25-30 205
 20-25 186
 Name: count, dtype: int64

In [7]: *# sorts data based on values in a column*
`df['Age'].sort_index()`

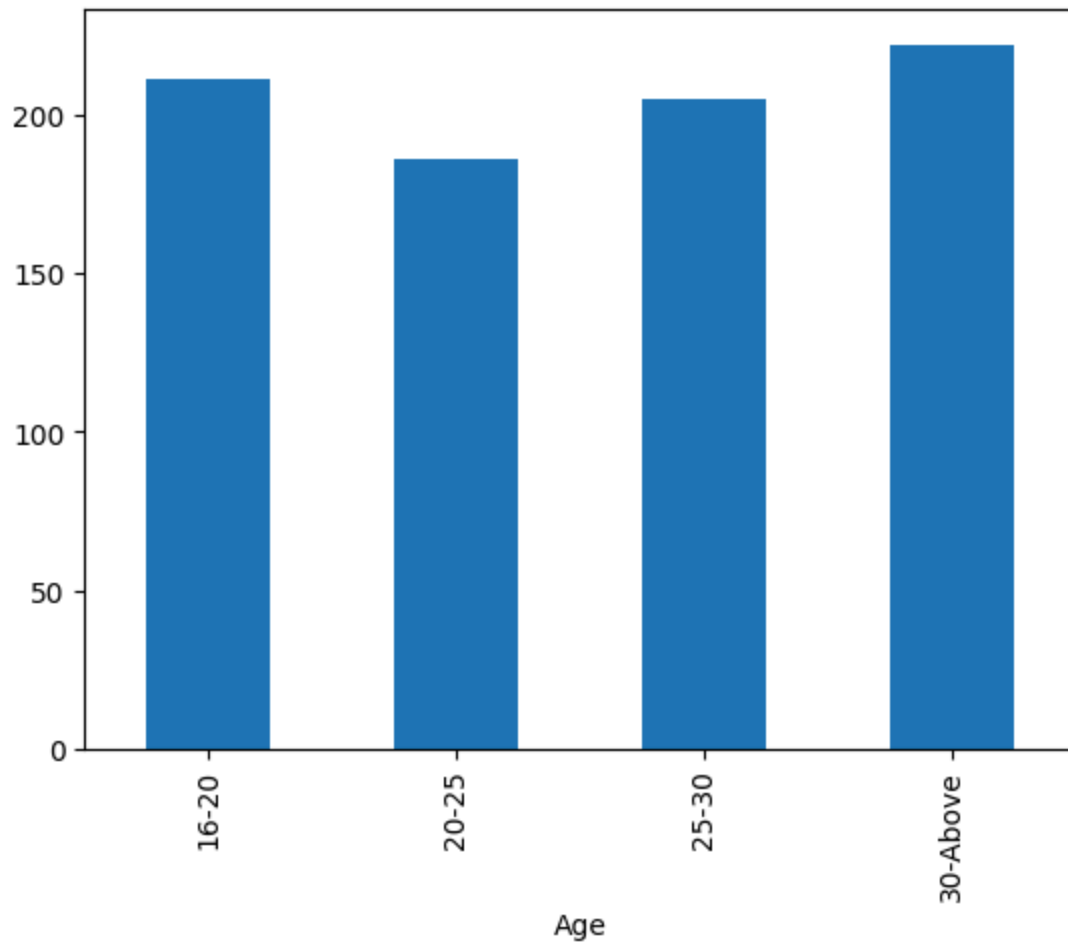
Out[7]: 0 20-25
 1 30-Above
 2 30-Above
 3 25-30
 4 16-20
 ...
 819 20-25
 820 20-25
 821 20-25
 822 16-20
 823 30-Above
 Name: Age, Length: 824, dtype: object

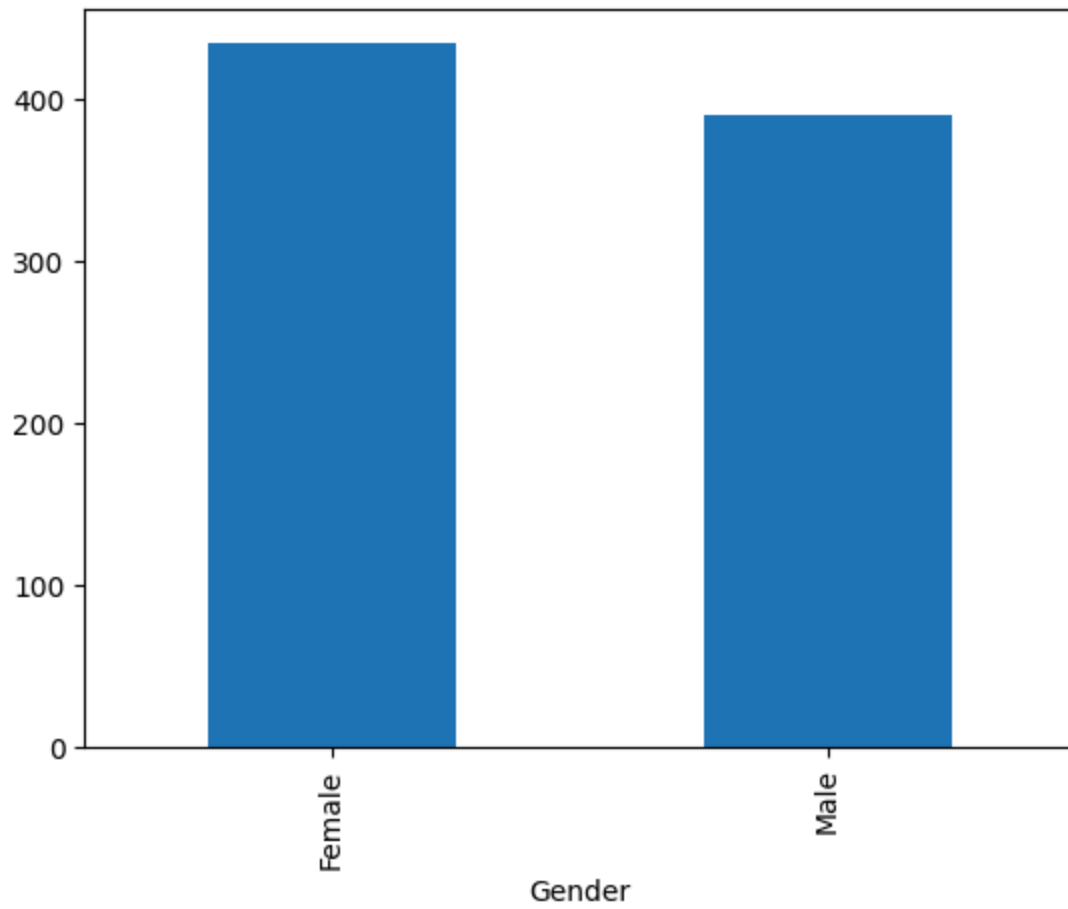
In [8]: *#for each values column, counting number of each unique age and sorting by index(as*
`df['Age'].value_counts().sort_index().plot(kind='bar')`
`plt.show()`

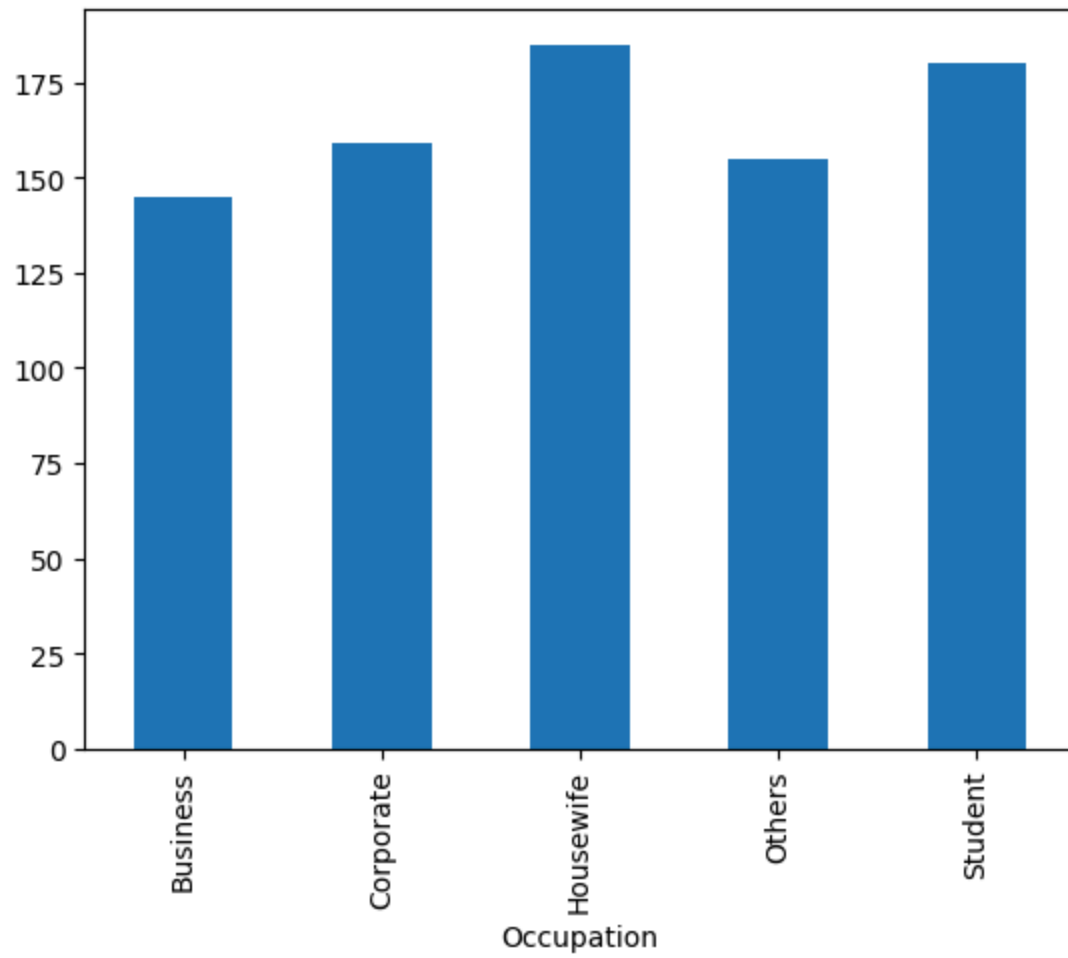


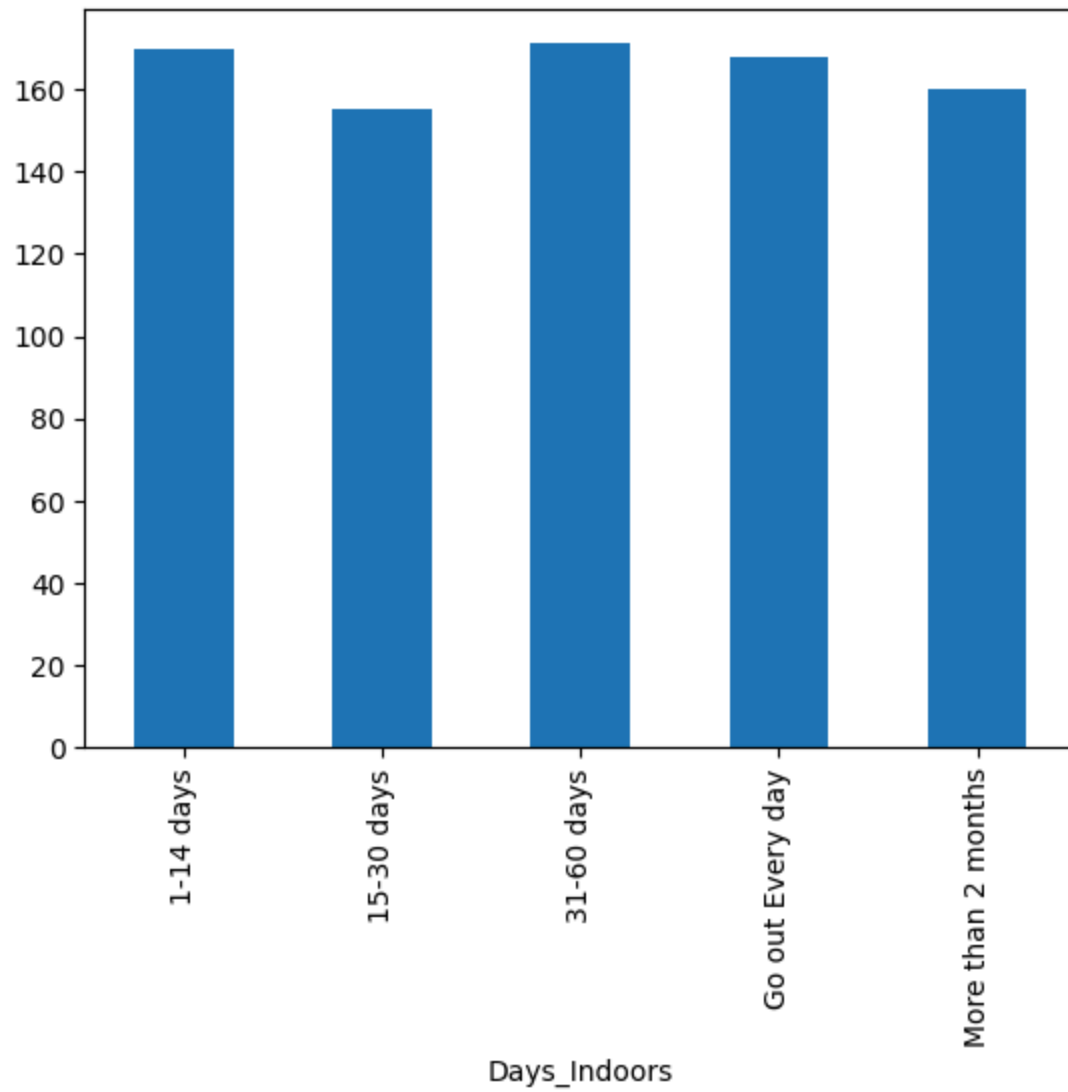
```
In [9]: #lets write a function that graphs every column
def graph(data_frame):
    for column in df:
        df[column].value_counts().sort_index().plot(kind='bar')
        plt.show()
    return
```

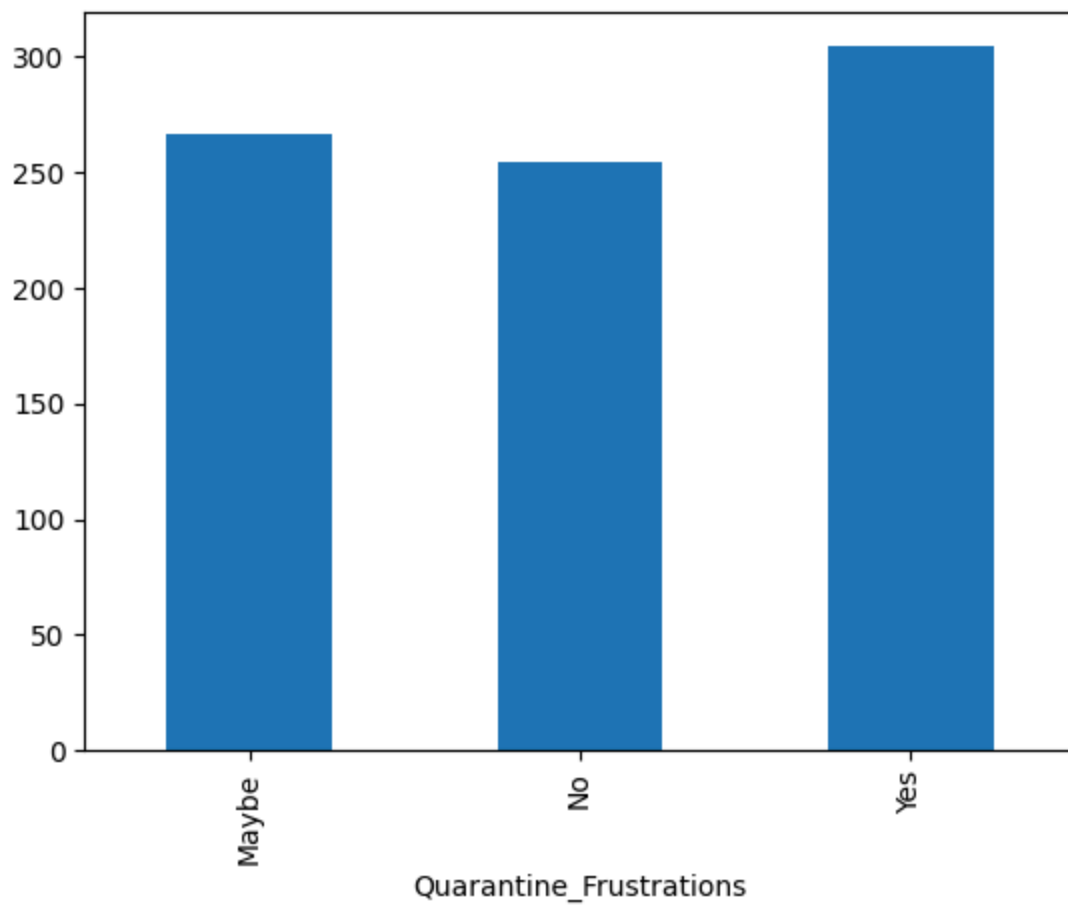
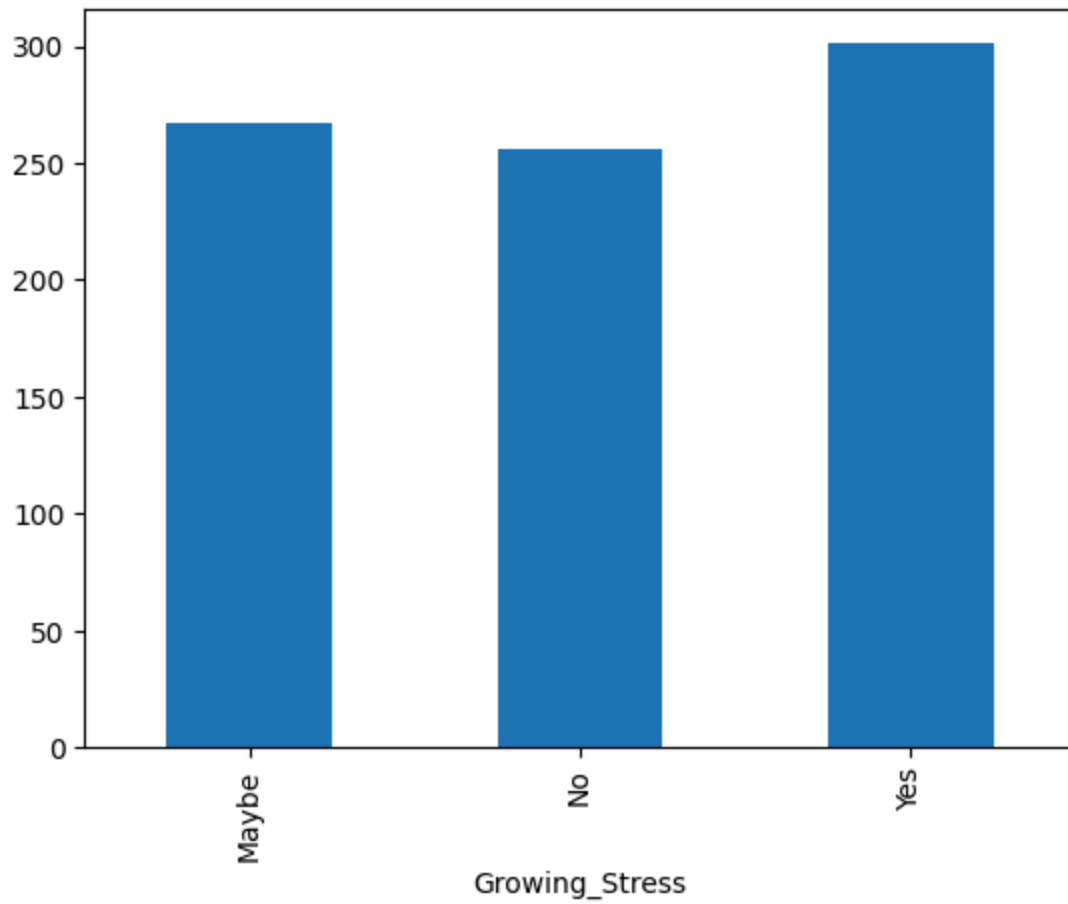
```
In [10]: graph(df)
```

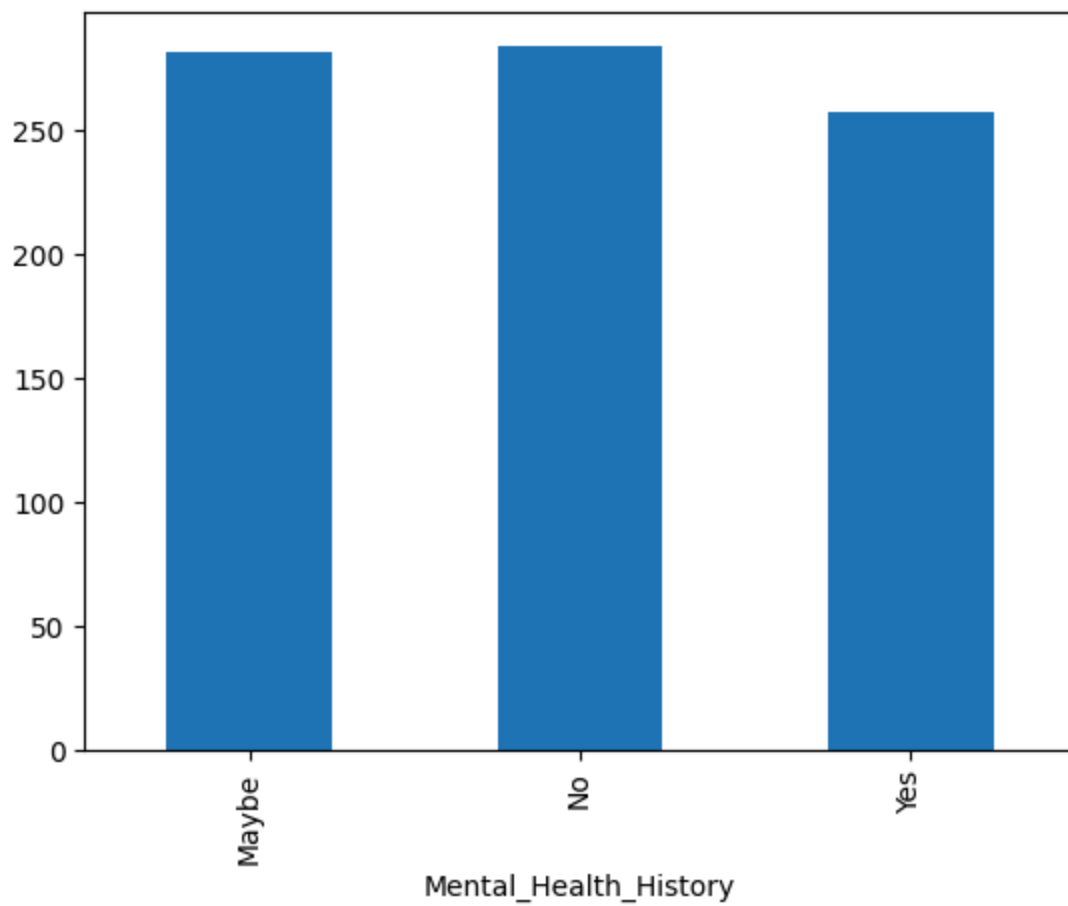
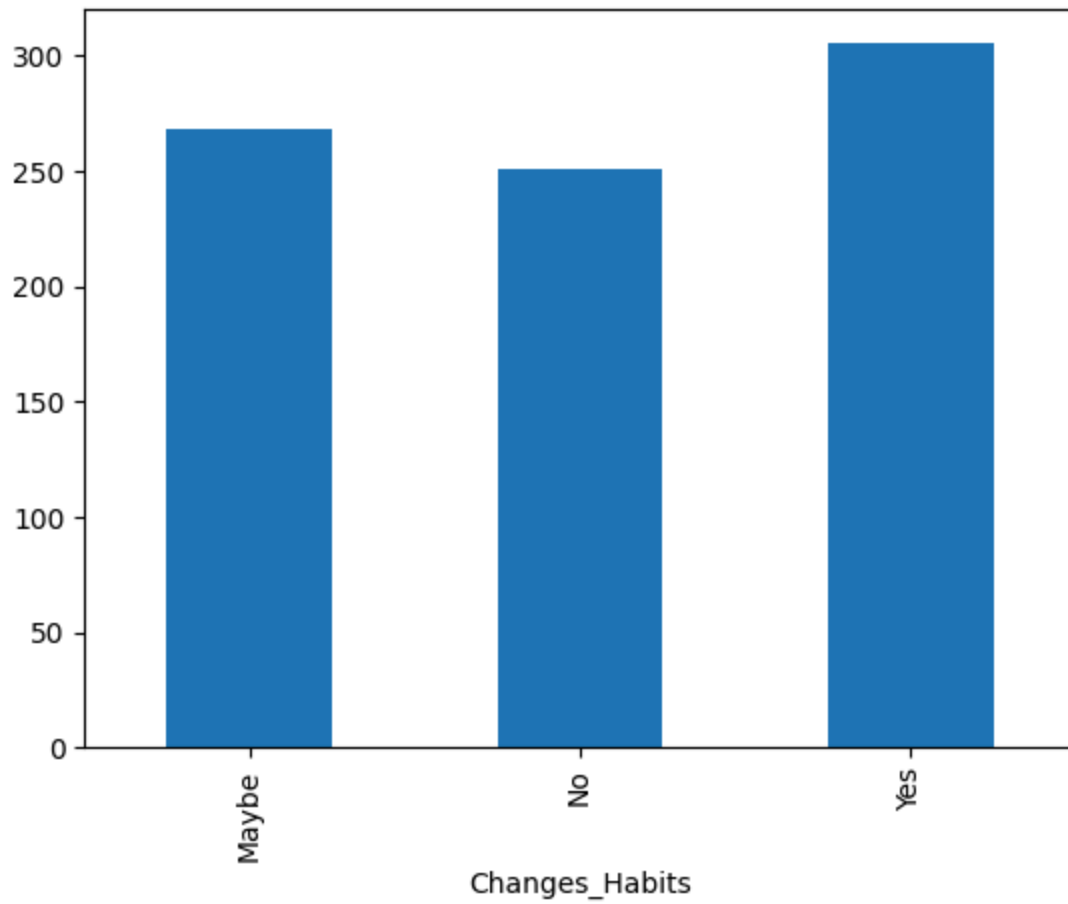


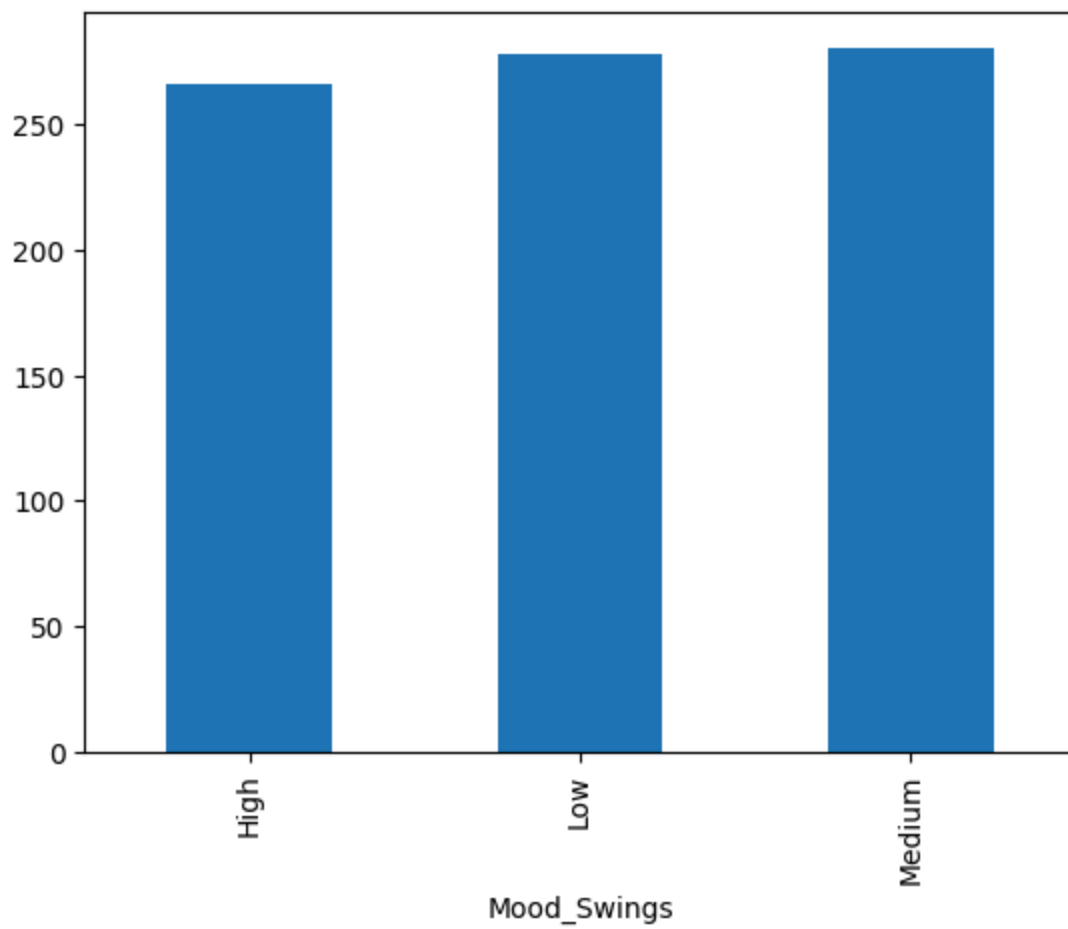
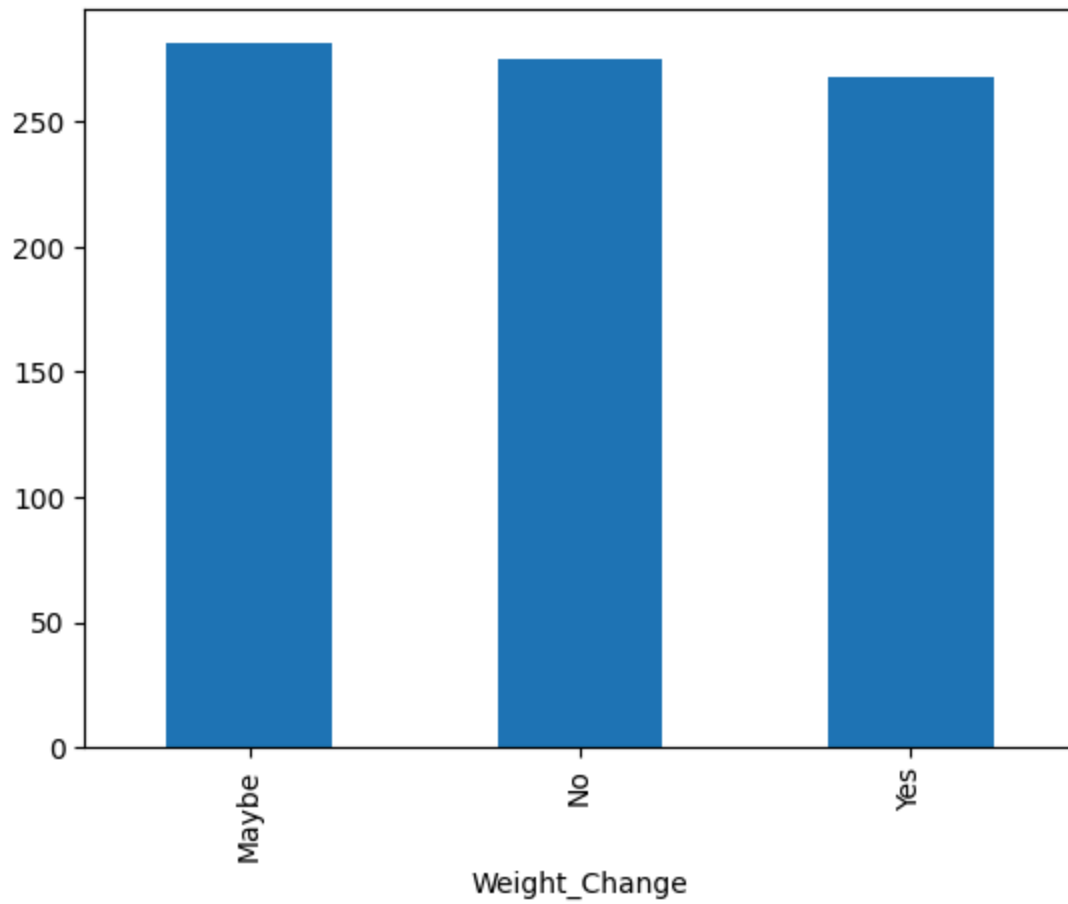


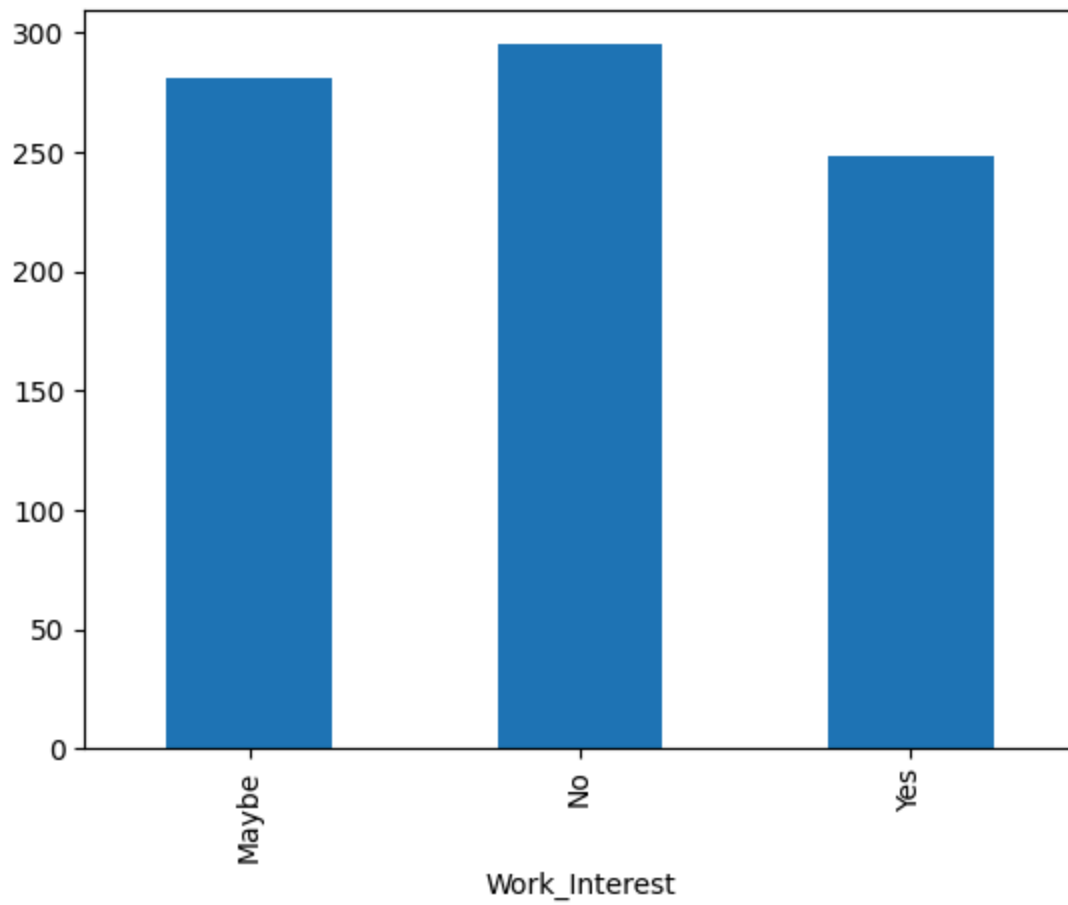
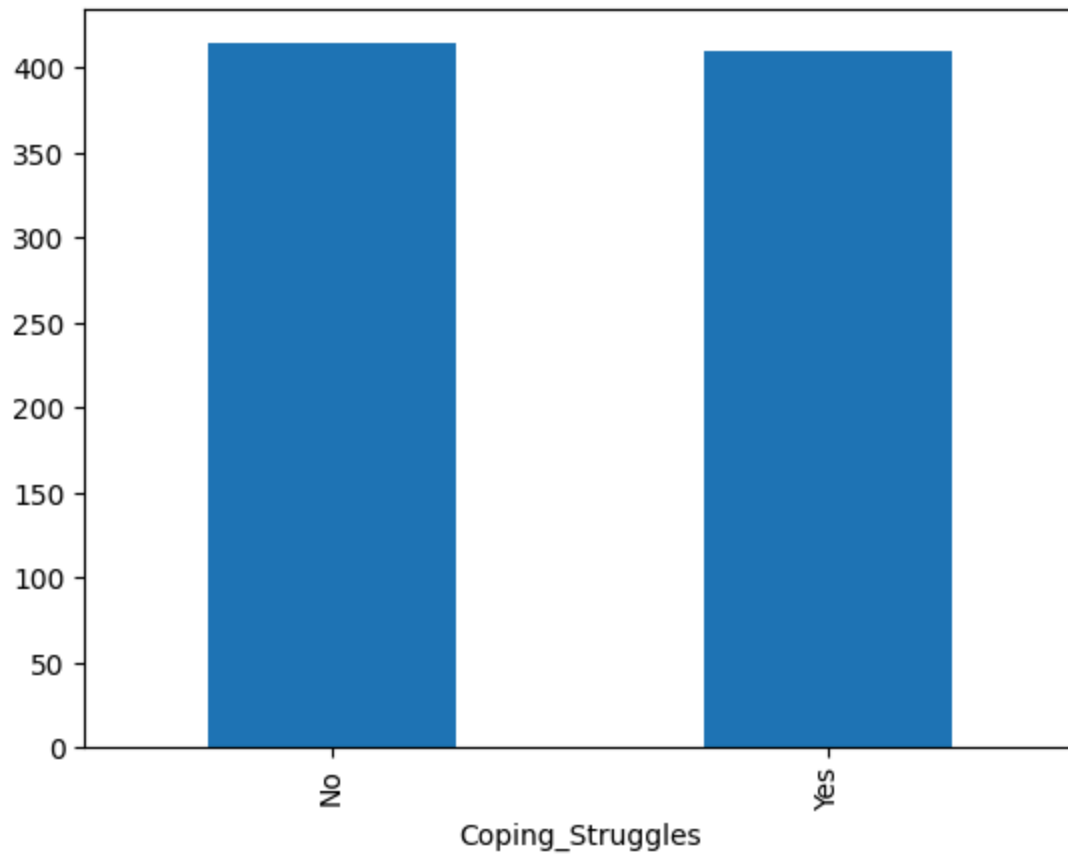


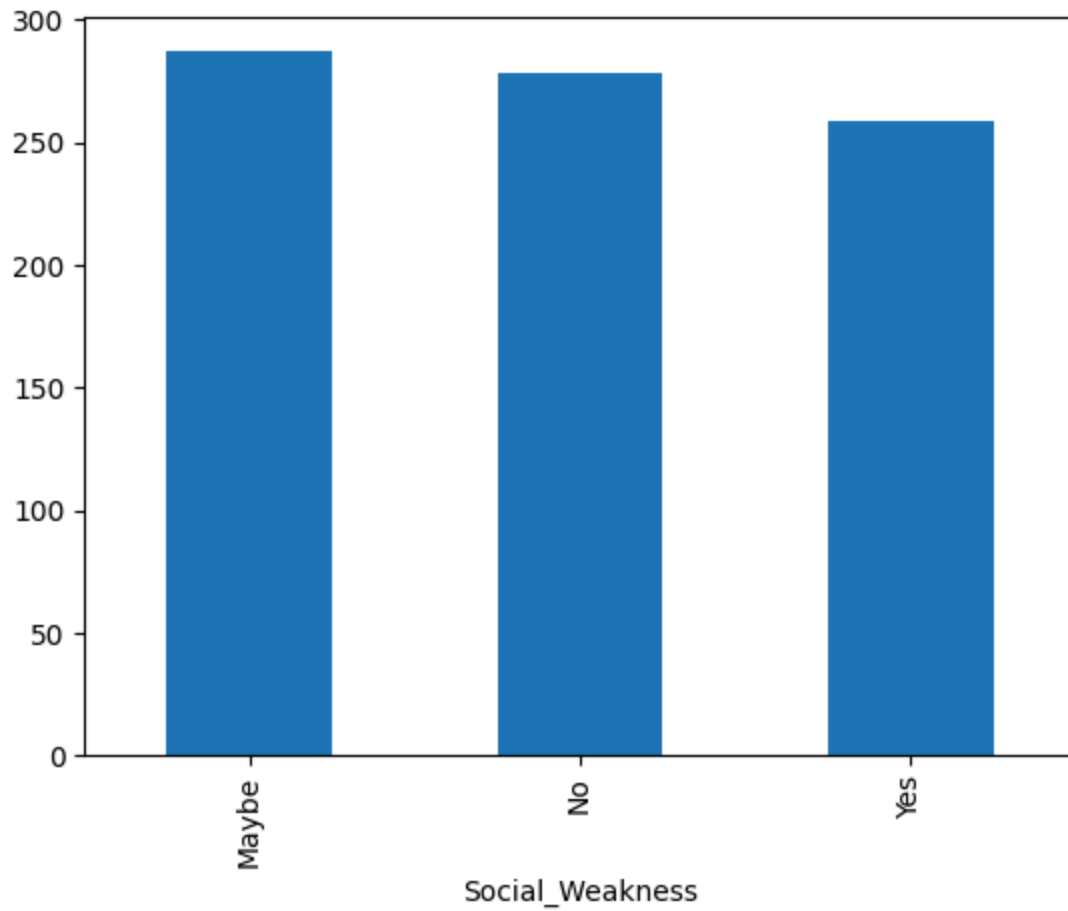






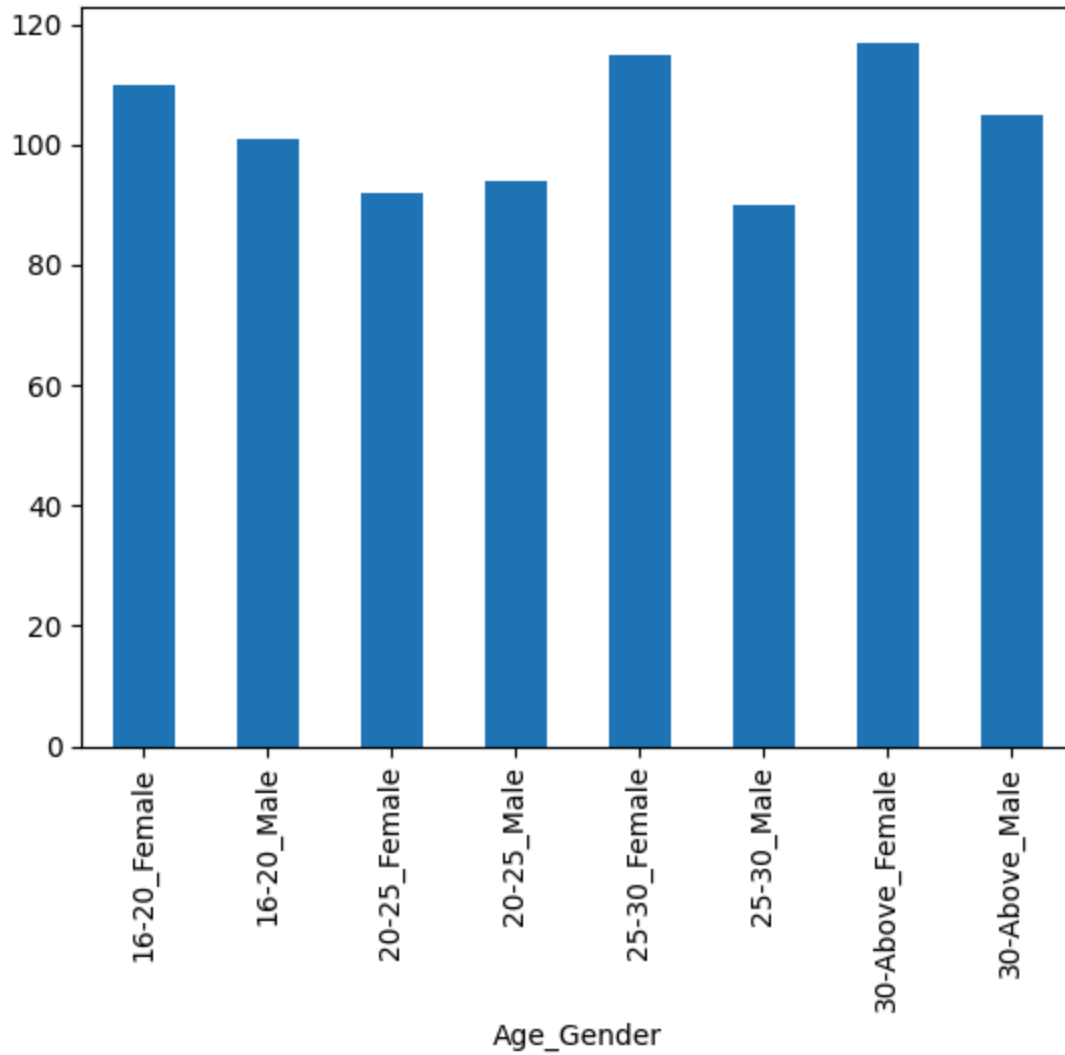






```
In [11]: # combine two different columns; age and gender  
df['Age_Gender'] = df['Age'] + '_' + df['Gender']
```

```
In [12]: #graphing the result  
df['Age_Gender'].value_counts().sort_index().plot(kind='bar')  
plt.show()
```



In [13]: `df.describe()`

Out[13]:

	Age	Gender	Occupation	Days_Indoors	Growing_Stress	Quarantine_Frustrations
count	824	824	824	824	824	824
unique	4	2	5	5	3	3
top	30-Above	Female	Housewife	31-60 days	Yes	Yes
freq	222	434	185	171	301	304

In [18]: `len(df.columns)`

Out[18]: 14

In []: