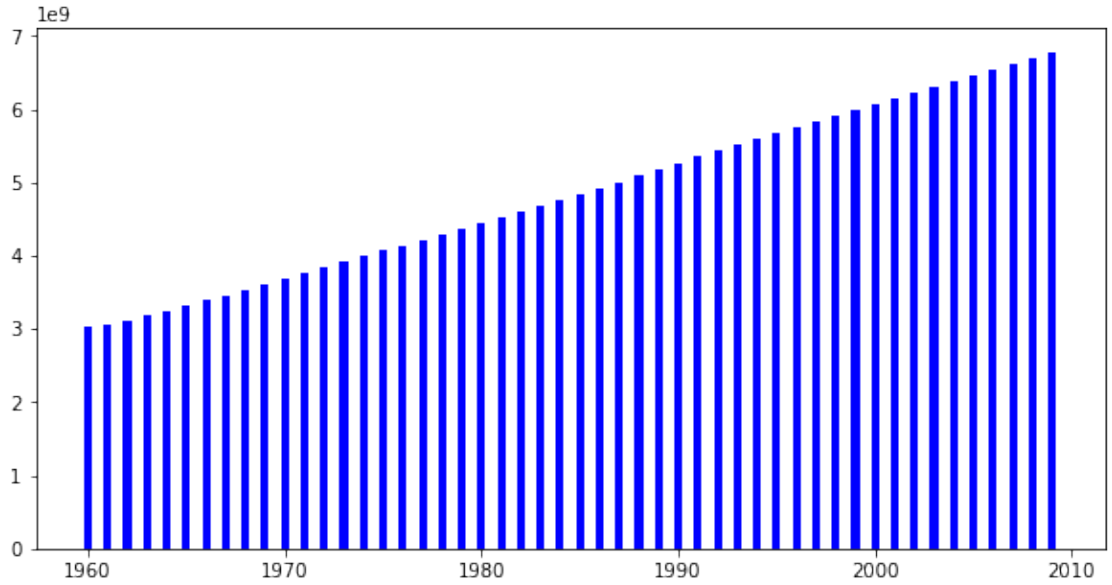
```
# GENERATE Barchart FROM THE DATA SET world-population.xlsm

import pandas as pd
import matplotlib.pyplot as plt

#read the excel file using pd.read_excel
df = pd.read_excel('world-population.xlsm')
df.head()
```

```
   Year  Population
0  1960  3028654024
1  1961  3068356747
2  1962  3121963107
3  1963  3187471383
4  1964  3253112403
```

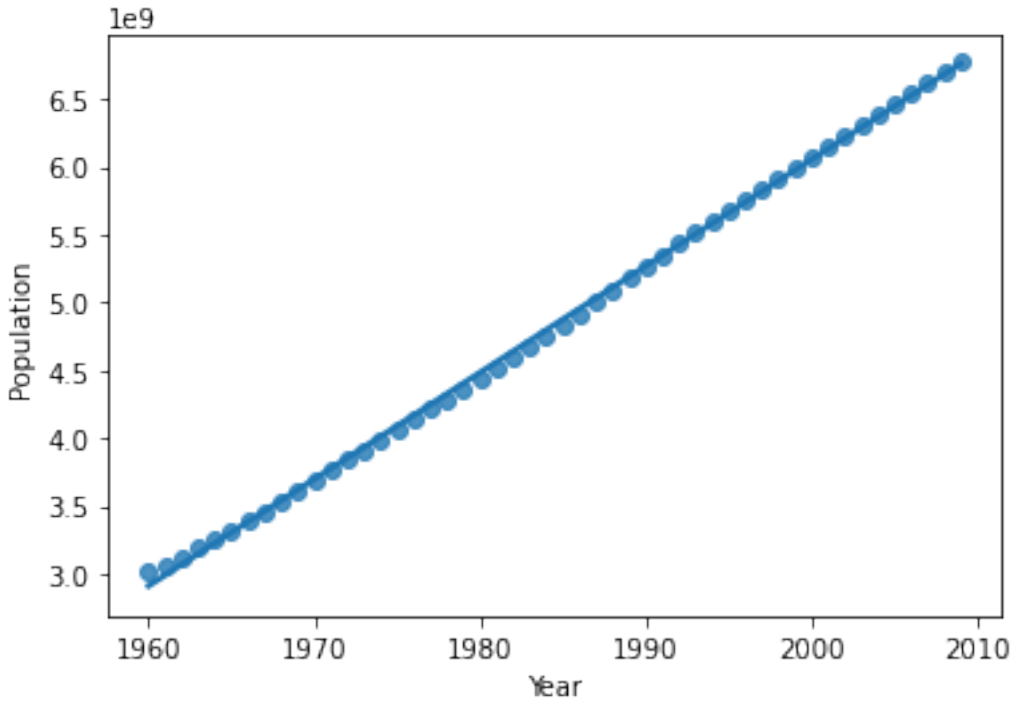
```
Year =  df['Year']
Population = df['Population']

fig = plt.figure(figsize = (10, 5))

# creating the bar plot
plt.bar(Year, Population, color ='Blue',
        width = 0.4)
```

```
<BarContainer object of 50 artists>
```

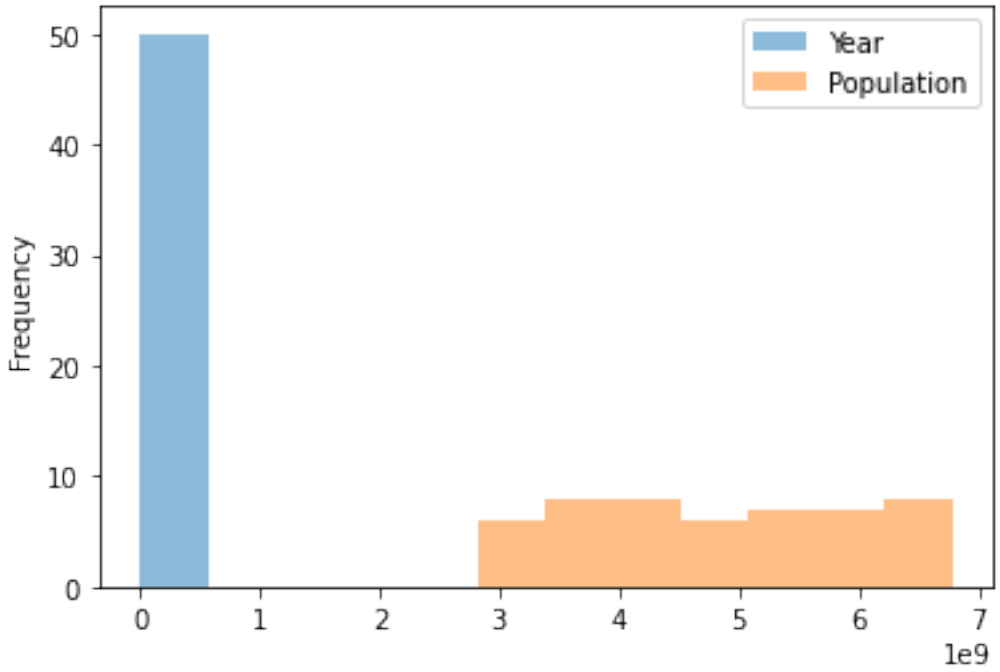



```
# Scatter plot using world-population.xlsm
import seaborn as sns
sns.regplot(x=df["Year"], y=df["Population"])
```

```
<AxesSubplot:xlabel='Year', ylabel='Population'>
```




```
# histogram
ax = df.plot.hist(bins=12, alpha=0.5)
```




```
#Generate Histogram from CANDY-HIERARCHY-2015-SURVEY-Responses.xlxs
#read the excel file using pd.read_excel
df_candy = pd.read_excel('CANDY-HIERARCHY-2015-SURVEY-Responses.xlsx')
df_candy.head()
```

```
                Timestamp How old are you?  \
0 2015-10-23 08:46:20.451             35.0
1 2015-10-23 08:46:51.583             41.0
2 2015-10-23 08:47:34.285             33.0
3 2015-10-23 08:47:58.964             31.0
4 2015-10-23 08:48:11.719             30.0

  Are you going actually going trick or treating yourself?
[Butterfinger]  \
0                                                    No
JOY
1                                                    No
JOY
2                                                    No
DESPAIR
3                                                    No
JOY
4                                                    No
NaN

   [100 Grand Bar]  \
0              NaN
1              JOY
2          DESPAIR
3              JOY
4              JOY

   [Anonymous brown globs that come in black and orange wrappers]  \
0                                                DESPAIR
1                                                DESPAIR
2                                                DESPAIR
3                                                DESPAIR
4                                                DESPAIR

   [Any full-sized candy bar]  [Black Jacks]  [Bonkers]  [Bottle Caps]
...  \
0                         JOY            NaN        NaN            NaN
...
1                         JOY        DESPAIR    DESPAIR            JOY
...
2                         JOY        DESPAIR    DESPAIR        DESPAIR
...
3                         JOY        DESPAIR    DESPAIR            JOY
...
4                         JOY            NaN        NaN            NaN
...

   [Necco Wafers] Which day do you prefer, Friday or Sunday?  \
0             NaN                                          NaN
1         DESPAIR                                          NaN
```

```
2         DESPAIR                                          NaN
3         DESPAIR                                          NaN
4             NaN                                          NaN

  Please estimate the degrees of separation you have from the
following folks [Bruce Lee]  \
0                                                    NaN

1                                                    NaN

2                                                    NaN

3                                                    NaN

4                                                    NaN


  Please estimate the degrees of separation you have from the
following folks [JK Rowling]  \
0                                                    NaN

1                                                    NaN

2                                                    NaN

3                                                    NaN

4                                                    NaN


  Please estimate the degrees of separation you have from the
following folks [Malala Yousafzai]  \
0                                                    NaN

1                                                    NaN

2                                                    NaN

3                                                    NaN

4                                                    NaN


  Please estimate the degrees of separation you have from the
following folks [Thom Yorke]  \
0                                                    NaN

1                                                    NaN
```

```
2                                                   NaN

3                                                   NaN

4                                                   NaN


  Please estimate the degrees of separation you have from the
following folks [JJ Abrams]  \
0                                                   NaN

1                                                   NaN

2                                                   NaN

3                                                   NaN

4                                                   NaN


  Please estimate the degrees of separation you have from the
following folks [Hillary Clinton]  \
0                                                   NaN

1                                                   NaN

2                                                   NaN

3                                                   NaN

4                                                   NaN


  Please estimate the degrees of separation you have from the
following folks [Donald Trump]  \
0                                                   NaN

1                                                   NaN

2                                                   NaN

3                                                   NaN

4                                                   NaN


  Please estimate the degrees of separation you have from the
```

```
following folks [Beyoncé Knowles]
0                                                   NaN

1                                                   NaN

2                                                   NaN

3                                                   NaN

4                                                   NaN


[5 rows x 124 columns]
```

```
plt.hist(df_candy['Are you going actually going trick or treating
yourself?'])
plt.title("Are you going actually going trick or treating yourself?")
plt.show()
```