## 2\_run\_report

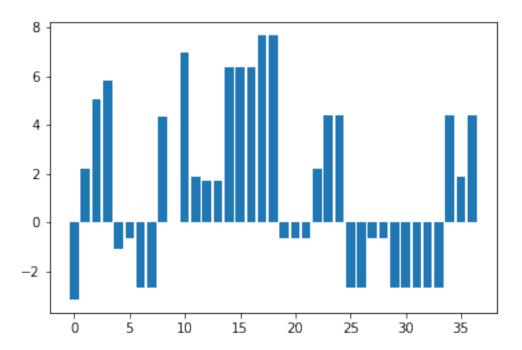
## October 3, 2021

```
[57]: %matplotlib inline
      from matplotlib import pyplot as plt
      import pandas as pd
[52]: dfp = pd.read_csv('model_output.csv')
[95]: dfp.columns
[95]: Index(['GLOBALEVENTID', 'SQLDATE', 'MonthYear', 'Year', 'FractionDate',
             'Actor1Code', 'Actor1Name', 'Actor1CountryCode', 'Actor1KnownGroupCode',
             'Actor1EthnicCode', 'Actor1Religion1Code', 'Actor1Religion2Code',
             'Actor1Type1Code', 'Actor1Type2Code', 'Actor1Type3Code', 'Actor2Code',
             'Actor2Name', 'Actor2CountryCode', 'Actor2KnownGroupCode',
             'Actor2EthnicCode', 'Actor2Religion1Code', 'Actor2Religion2Code',
             'Actor2Type1Code', 'Actor2Type2Code', 'Actor2Type3Code', 'IsRootEvent',
             'EventCode', 'EventBaseCode', 'EventRootCode', 'QuadClass',
             'GoldsteinScale', 'NumMentions', 'NumSources', 'NumArticles', 'AvgTone',
             'Actor1Geo_Type', 'Actor1Geo_FullName', 'Actor1Geo_CountryCode',
             'Actor1Geo_ADM1Code', 'Actor1Geo_ADM2Code', 'Actor1Geo_Lat',
             'Actor1Geo_Long', 'Actor1Geo_FeatureID', 'Actor2Geo_Type',
             'Actor2Geo_FullName', 'Actor2Geo_CountryCode', 'Actor2Geo_ADM1Code',
             'Actor2Geo_ADM2Code', 'Actor2Geo_Lat', 'Actor2Geo_Long',
             'Actor2Geo_FeatureID', 'ActionGeo_Type', 'ActionGeo_FullName',
             'ActionGeo_CountryCode', 'ActionGeo_ADM1Code', 'ActionGeo_ADM2Code',
             'ActionGeo Lat', 'ActionGeo Long', 'ActionGeo FeatureID', 'DATEADDED',
             'SOURCEURL', 'Actor1__model_time_in_ms',
             'Actor1 release harness version', 'Actor1 release model version',
             'Actor1_release_model_version_number', 'Actor1_request_id',
             'Actor1_result_class1', 'Actor1_result_class2', 'Actor1_timing',
             'Actor2_model_time_in_ms', 'Actor2_release_harness_version',
             'Actor2_release_model_version', 'Actor2_release_model_version_number',
             'Actor2_request_id', 'Actor2_result_class1', 'Actor2_result_class2',
             'Actor2_timing'],
            dtype='object')
[58]: dfp.head()
```

```
[58]:
         GLOBALEVENTID
                           SQLDATE MonthYear Year FractionDate Actor1Code \
                                                 2018
                                                          2018.2904
      0
             838788881
                         4/16/2018
                                        201804
                                                                             EDU
      1
                         4/16/2018
                                        201804 2018
                                                          2018.2904
                                                                             EDU
             838788882
      2
                         4/16/2018
                                        201804 2018
                                                          2018.2904
                                                                             GOV
             838788884
      3
                                        201804 2018
              838788885
                         4/16/2018
                                                          2018.2904
                                                                             GOV
      4
             838788886
                         4/16/2018
                                        201804
                                                 2018
                                                          2018.2904
                                                                             GOV
         Actor1Name Actor1CountryCode Actor1KnownGroupCode Actor1EthnicCode
      0
          ECONOMIST
                                    NaN
                                                          NaN
                                                                             NaN
      1
            STUDENT
                                    NaN
                                                          NaN
                                                                             {\tt NaN}
      2
         GOVERNMENT
                                    NaN
                                                          NaN
                                                                             NaN
      3
         GOVERNMENT
                                    NaN
                                                          NaN
                                                                             {\tt NaN}
      4
             MINIST
                                    NaN
                                                          NaN
                                                                             {\tt NaN}
        Actor1_result_class2 Actor1_timing Actor2__model_time_in_ms
      0
                             3
                                    0.078201
      1
                            0
                                    0.079155
                                                                      0
      2
                            3
                                    0.120401
                                                                   1001
      3
                             3
                                    0.074387
                                                                      0
      4
                            3
                                    0.069141
                                                                      0
        Actor2 release harness version Actor2 release model version
                                               5ec427ae4cedfd0008830f07
      0
                                     0.1
                                     0.1
                                               5ec427ae4cedfd0008830f07
      1
      2
                                     0.1
                                               5ec427ae4cedfd0008830f07
      3
                                     0.1
                                               5ec427ae4cedfd0008830f07
      4
                                     0.1
                                               5ec427ae4cedfd0008830f07
        Actor2_release_model_version_number Actor2_request_id Actor2_result_class1
      0
                                                RSFCLN4EK35X0U0V
                                                                                   True
      1
                                                RHC58LU0X41VKWE2
                                                                                   True
      2
                                               FHZU2BC010AY9LIS
                                                                                   True
      3
                                                3FQ158RWS97IJCLH
                                                                                   True
      4
                                                BMWNI3P4LV6FSJUR
                                                                                  False
        Actor2_result_class2 Actor2_timing
      0
                             3
                                 1001.194239
      1
                            4
                                    0.066280
      2
                            3
                                 1001.168489
      3
                            3
                                    0.053406
                            3
                                    0.045300
      [5 rows x 77 columns]
[91]: actor1_name = 'EDU'
      y_avgTone = list(dfp[dfp['Actor1Code'] == actor1_name]['AvgTone'])
```

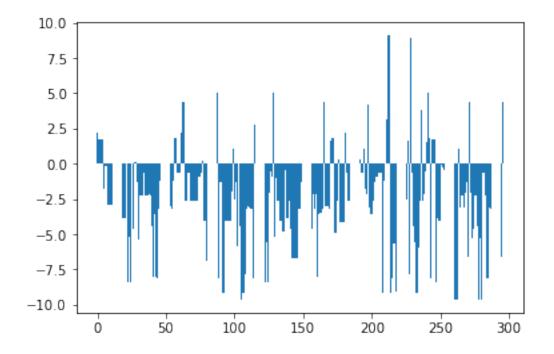
```
[92]: plt.bar(range(len(y_avgTone)), y_avgTone)
```

[92]: <BarContainer object of 37 artists>



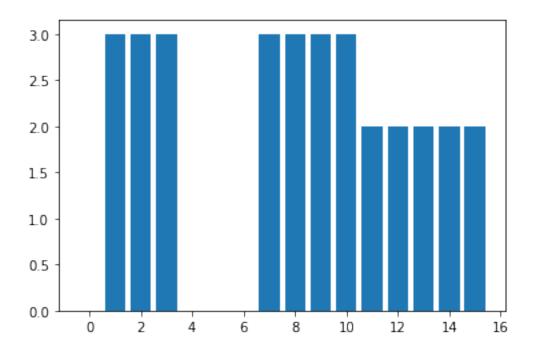
```
[106]:
           GLOBALEVENTID Actor1Code Actor2Code
                                                    AvgTone Actor1_result_class1
       1
                838788882
                                  EDU
                                                   2.214022
                                              USA
                                                                               True
       8
                                                   1.692748
                838788896
                                  USA
                                              OPP
                                                                               True
       9
                838788897
                                  USA
                                              OPP
                                                   1.692748
                                                                               True
       10
                838788898
                                  USA
                                                   1.692748
                                              OPP
                                                                               True
       11
                838788899
                                  USA
                                              OPP
                                                   1.692748
                                                                               True
           Actor1_result_class2
                                   Actor2_result_class1 Actor2_result_class2
       1
                                0
                                                                               4
                                                    True
                                4
       8
                                                    True
                                                                               1
                                4
       9
                                                    True
                                                                               1
       10
                                4
                                                    True
                                                                               1
       11
                                4
                                                    True
                                                                               1
[109]: y = list(actor_df['AvgTone'])
       plt.bar(range(len(y)), y)
```

[109]: <BarContainer object of 296 artists>



```
[111]: y = list(actor_df[actor_df['Actor1Code'] == actor_name]['Actor1_result_class2'])
plt.bar(range(len(y)), y)
```

[111]: <BarContainer object of 16 artists>



[112]: y = list(actor\_df[actor\_df['Actor2Code'] == actor\_name]['Actor2\_result\_class2'])
plt.bar(range(len(y)), y)

[112]: <BarContainer object of 22 artists>

