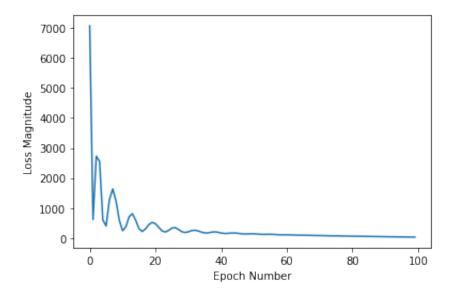
```
In [3]:
         import tensorflow as tf
          import numpy as np
          import pandas as pd
          import matplotlib.pyplot as plt
In [18]: dataset = pd.read_csv('./centigradosFarenHeit.csv')
          c = dataset.iloc[:,0:1].values
          c = c.astype(float)
          f = dataset.iloc[:,1:2].values
          f = f.astype(float)
In [21]: |model = tf.keras.Sequential([
           tf.keras.layers.Dense(units=1, input_shape=[1])
In [22]: |model.compile(loss='mean_squared_error',
                        optimizer=tf.keras.optimizers.Adam(0.1),
                        metrics=['mean_squared_error'])
In [23]: history = model.fit(c, f, epochs=500, verbose=False)
          print("Finished training the model")
          Finished training the model
In [24]: history.params
Out[24]: {'verbose': False, 'epochs': 500, 'steps': 1}
In [25]: plt.xlabel('Epoch Number')
          plt.ylabel("Loss Magnitude")
          plt.plot(history.history['loss'])
          plt.show()
            35000
            30000
            25000
          oss Magnitude
            20000
            15000
            10000
             5000
               0
                          100
                                 200
                                                 400
                                         300
                                                        500
                                 Epoch Number
In [30]: print(model.predict([12.0]))
          1/1 [=====
                                  ========1 - 0s 55ms/step
          [[54.456665]]
 In [ ]:
```

Out[31]: [<matplotlib.lines.Line2D at 0x7f9d759abbe0>]



```
In []:

In []:

In []:
```