

# ME 433 HW 14

May 22, 2024

## 1 Digital Signal Processing

```
[55]: import csv
import matplotlib.pyplot as plt
import numpy as np
```

```
[204]: def MAF(data, X, size_of_t):
    filtered_data = []
    for i in range(size_of_t):
        if i < X:
            #compensating for lack of data
            filtered_data.append(sum(data[:i+1])/(i+1))
        else:
            filtered_data.append(sum(data[i-X+1:i+1])/X)
    return filtered_data
```

```
[205]: def IIR(data, size_of_t, A, B):
    filtered_data = [data[0]]
    for i in range(1, size_of_t):
        new_average = A * filtered_data[i-1] + B * data[i]
        filtered_data.append(new_average)
    return filtered_data
```

```
[224]: def FIR(data, weights, X, size_of_t):
    filtered_data = []
    for i in range(size_of_t):
        convolution = 0
        for j in range(X):
            if i - j >= 0: # Check boundary
                convolution += data[i - j] * weights[j]
        filtered_data.append(convolution)

    return filtered_data
```

```
[290]: def FIR_alt(data, weights, X, size_of_t):
    filtered_data = []
    for i in range(size_of_t):
```

```

convulation = 0
for j in range(X):
    if i + j < size_of_t: # Check boundary
        convolution += data[i + j] * weights[j]
    filtered_data.append(convulation)

return filtered_data

```

[222]: #TEST- DELETE!!!!

```

X = 5
data1 = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
sig_weights = [0.1, 0.2, 0.3, 0.1, 0.2]

filtered_output = FIR(data1, sig_weights, X, 10)
print("Filtered Output:", filtered_output)

```

Filtered Output: [2.8, 3.7, 4.600000000000005, 5.5, 6.4, 7.300000000000001, 6.0, 5.6, 2.9, 1.0]

[208]: `def FFT_grapher(t, data1, sample_rate, sig, filtered_data, fil_name,`

```

extra_info):
    Fs = sample_rate
    Ts = 1.0 / Fs # sampling interval
    ts = np.arange(0, t[-1], Ts) # time vector
    y = data1 # the data to make the fft from
    z = filtered_data # the data to make the fft from
    n = len(y) # length of the signal
    k = np.arange(n)
    T = n / Fs
    frq = k / T # two sides frequency range
    frq = frq[range(int(n/2))] # one side frequency range
    Y = np.fft.fft(y) / n # fft computing and normalization
    Y = Y[range(int(n/2))]
    Z = np.fft.fft(z) / n # fft computing and normalization
    Z = Z[range(int(n/2))]

    #plt.figure(figsize=(40, 20))
    fig, (ax1, ax2) = plt.subplots(2, 1, figsize=(20, 10),  

    constrained_layout=True)
    ax1.plot(t, y, 'b', label='Unfiltered', markersize=5, linewidth=1.5,  

    color='black')
    ax1.plot(t, z, 'b', label='Filtered', markersize=10, linewidth=3,  

    color='red')
    ax1.set_xlabel('Time')
    ax1.set_ylabel('Amplitude')

```

```

    ax2.loglog(frq, abs(Y), 'b', label='Unfiltered', markersize=5, linewidth=1.
    ↵5, color='black') # plotting the fft
    ax2.loglog(frq, abs(Z), 'b', label='Filtered', markersize=5, linewidth=3, ↵
    ↵color='red') # plotting the fft
    ax2.set_xlabel('Freq (Hz)')
    ax2.set_ylabel('|Y(freq)|')

signal_titles = {1: 'Signal A', 2: 'Signal B', 3: 'Signal C', 4: 'Signal D'}
signal_name = signal_titles.get(sig, "Unknown Signal")

filter_titles = {1: 'MAF', 2: 'IIR', 3: 'FIR'}
filter_name = filter_titles.get(fil_name, "Unknown Filter")

title = f'{signal_name} - {filter_name} - {extra_info}'
plt.suptitle(title)

filename = title.replace(' ', '_').replace('-', '_').replace(':', '_').
    ↵replace(',', '_') + '.png'
plt.savefig(filename)
plt.show()

```

## 2 Sig A

```

[291]: t = [] # column 0
data1 = [] # column 1
data2 = [] # column 2

with open('sigA.csv') as f:
    # open the csv file
    reader = csv.reader(f)
    for row in reader:
        # read the rows 1 one by one
        t.append(float(row[0])) # leftmost column
        data1.append(float(row[1])) # second column
        #data2.append(float(row[2])) # third column

size_of_t = len(t)
sample_rate = size_of_t/t[-1]
sig = 1
#print("Size of t:", size_of_t)

for i in range(size_of_t):
    # print the data to verify it was read
    #print(str(t[i]) + ", " + str(data1[i]) + ", " + str(data2[i]))
    print(str(t[i]) + ", " + str(data1[i]))

```

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4.9919, -0.4712783282001707  
4.992, -0.44187289601158447

4.992100000000001, -0.19872326170710863  
4.9922, -0.6231030736799419  
4.9923, 0.11459791427558075  
4.9924, -0.41974995918537666  
4.992500000000001, -0.5223130606855146  
4.9926, 0.4469467757787472  
4.9927, -0.08454547083624553  
4.9928, 0.43784908188091676  
4.992900000000001, 0.3793289297491683  
4.993, 0.6353412078410168  
4.9931, -0.4120589289199891  
4.9932, 0.4560135617722597  
4.993300000000005, 0.5631758619439947  
4.9934, -0.171784061439759  
4.9935, 0.0959142020592953  
4.9936, -0.22001748282132316  
4.993700000000005, -0.209292001026951  
4.9938, 0.9989412119421781  
4.9939, 0.19503673678522992  
4.994000000000001, 0.4114153283175451  
4.9941, 0.6741434007795061  
4.9942, -0.048254340976636945  
4.9943, 0.773820047677718  
4.994400000000001, 0.8404384741608223  
4.9945, 0.6320935021251337  
4.9946, -0.04457779548679919  
4.9947, 0.2543130832281391  
4.994800000000001, 0.18075179208745118  
4.9949, 0.6818582313570176  
4.995, 1.142282613795202  
4.9951, 0.6535368254782512  
4.995200000000005, 1.3475089168471484  
4.9953, 0.8332008057147449  
4.9954, 0.5233145239581265  
4.9955, 0.605190552892823  
4.995600000000005, 1.5225418435919196  
4.9957, 0.45331794101878103  
4.9958, 0.28486090467730957  
4.995900000000001, 1.0016375482064865  
4.996, 1.4939193276146985  
4.9961, 1.1709393301684075  
4.9962, 0.41036042381263405  
4.996300000000001, 0.4638275325426144  
4.9964, 1.2431243449514329  
4.9965, 1.7334948522450249  
4.9966, 1.0748070213776806  
4.996700000000001, 1.898774023650761  
4.9968, 1.7738804992419803

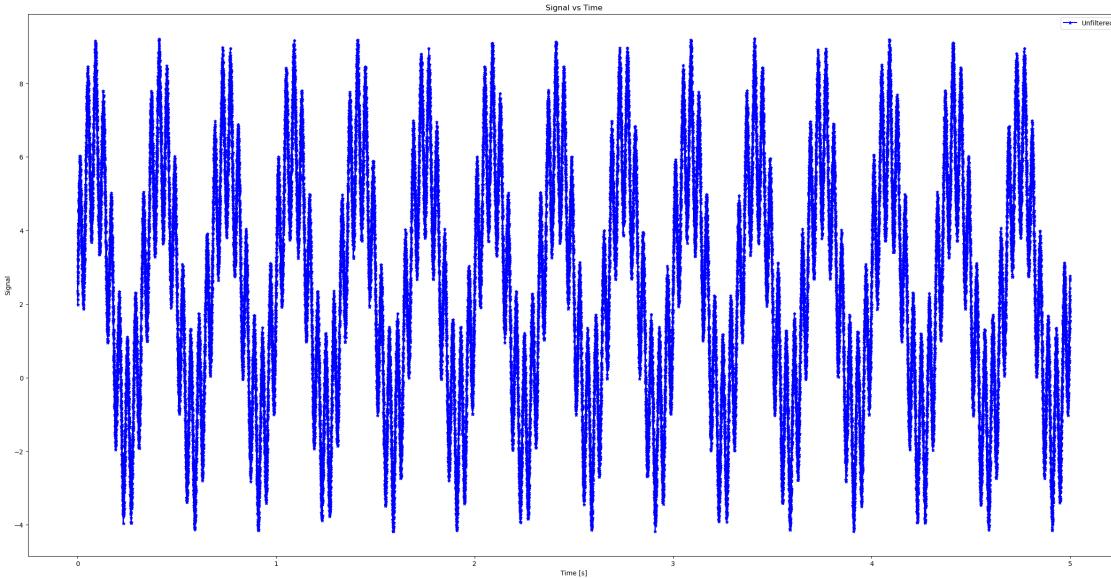
```
4.9969, 1.2495782142747223
4.997, 1.9419368659672511
4.9971000000000005, 1.2101290802616655
4.9972, 0.7217795175172801
4.9973, 1.4809675500663158
4.9974, 0.815055257224232
4.9975000000000005, 2.00865210251467
4.9976, 1.7817212233001134
4.9977, 2.3280117428782163
4.9978, 2.2062250020253726
4.9979000000000005, 2.0081840260654116
4.998, 1.5094515461301683
4.9981, 1.3921760802116436
4.9982000000000001, 1.872382836756123
4.9983, 1.5083686640398204
4.9984, 1.3043560563739711
4.9985, 1.778480750187975
4.9986000000000001, 1.5436137660458669
4.9987, 2.232844526282082
4.9988, 1.5487037635229264
4.9989, 1.3345073440953439
4.9990000000000006, 2.6898962742857435
4.9991, 2.6505713676032863
4.9992, 1.85686179654805
4.9993, 1.665744486371998
4.9994000000000005, 1.5237466991661748
4.9995, 2.7627252669354743
4.9996, 2.0839309244610287
4.9997, 2.1269964705974043
4.9998000000000005, 2.428664614431677
4.9999, 1.8074892937024778
```

```
[292]: print(sample_rate)
```

```
10000.20000400008
```

```
[293]: plt.figure(figsize=(30, 15))
plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5)
plt.xlabel('Time [s]')
plt.ylabel('Signal')
plt.title('Signal vs Time')

plt.legend()
# plt.savefig("Line Trajectory.png")
plt.show()
```



## 2.0.1 MAF

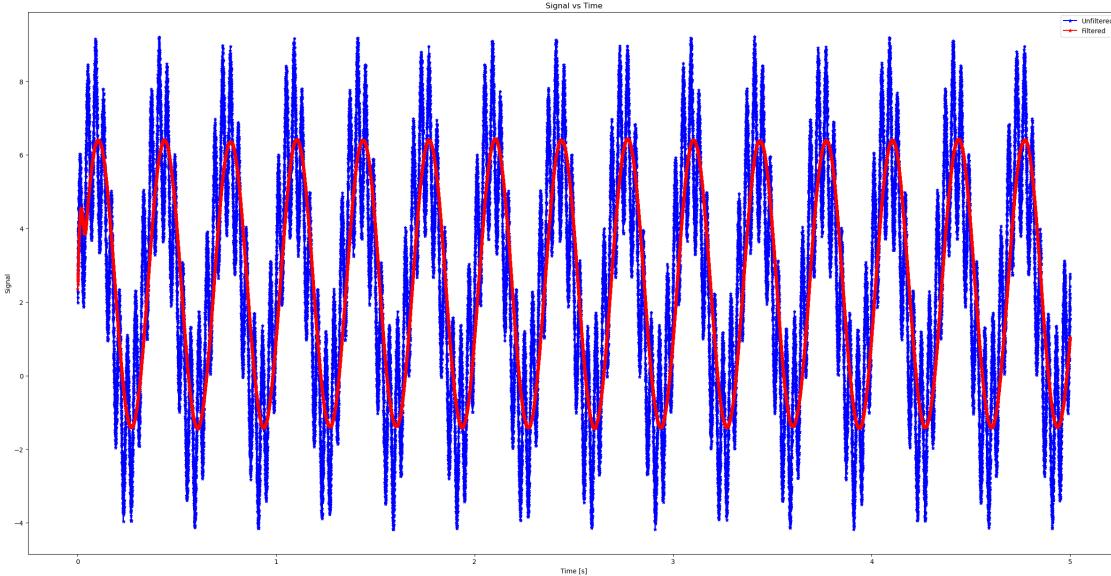
```
[294]: X = 400
        filtered_data = MAF(data1, X, size_of_t)

        plt.figure(figsize=(30, 15))
        plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
        plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')

        plt.xlabel('Time [s]')
        plt.ylabel('Signal')
        plt.title('Signal vs Time')

        plt.legend()
        plt.savefig("SigA MAF.png")
        plt.show()
```

```
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/3372002542.py:5
: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/3372002542.py:6
: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')
```

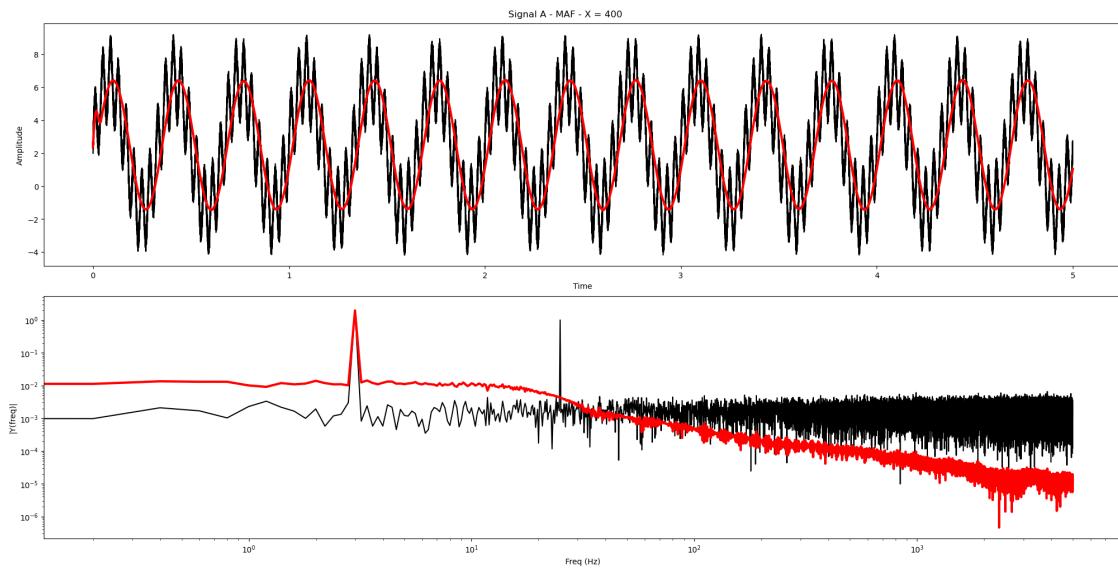


```
[295]: X = 400
fil = 1
filtered_data = MAF(data1, X, size_of_t)

FFT_grapher(t, data1, sample_rate, sig, filtered_data, fil, "X = 400")

/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy4000gn/T/ipykernel_41392/2018352675.py:1
9: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, y, 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy4000gn/T/ipykernel_41392/2018352675.py:2
0: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, z, 'b', label='Filtered', markersize=10, linewidth=3, color='red')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy4000gn/T/ipykernel_41392/2018352675.py:2
4: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax2.loglog(frq, abs(Y), 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black') # plotting the fft
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy4000gn/T/ipykernel_41392/2018352675.py:2
5: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax2.loglog(frq, abs(Z), 'b', label='Filtered', markersize=5, linewidth=3,
```

```
color='red') # plotting the fft
```



## 2.1 IIR Filter

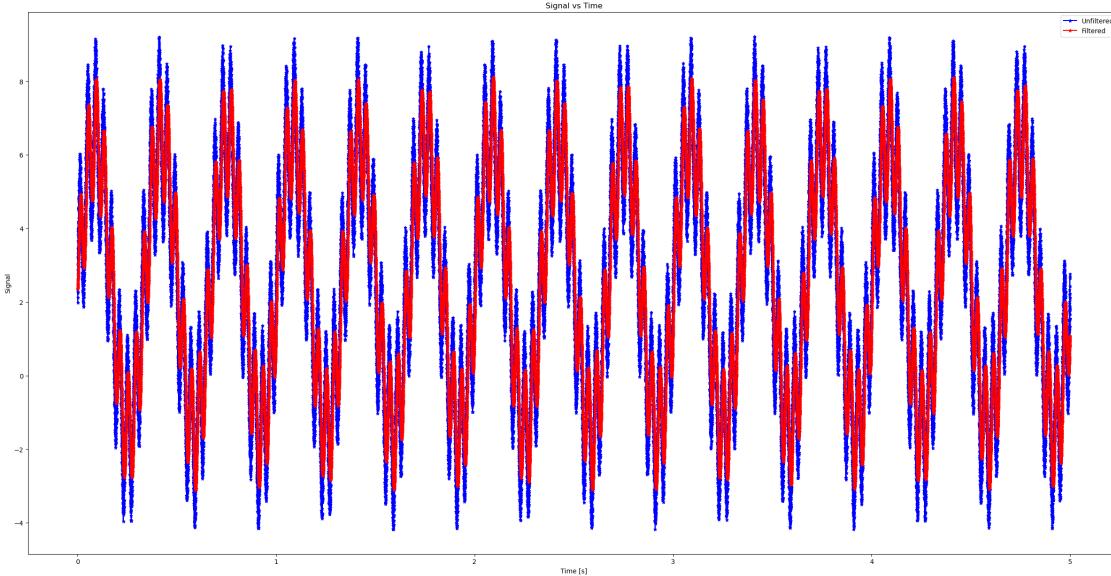
```
[296]: A = 0.98
B = 1 - A
filtered_data = IIR(data1, size_of_t, A, B)

plt.figure(figsize=(30, 15))
plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')

plt.xlabel('Time [s]')
plt.ylabel('Signal')
plt.title('Signal vs Time')

plt.legend()
plt.savefig("SigA IIR.png")
plt.show()
```

```
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2936128790.py:6
: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2936128790.py:7
: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')
```



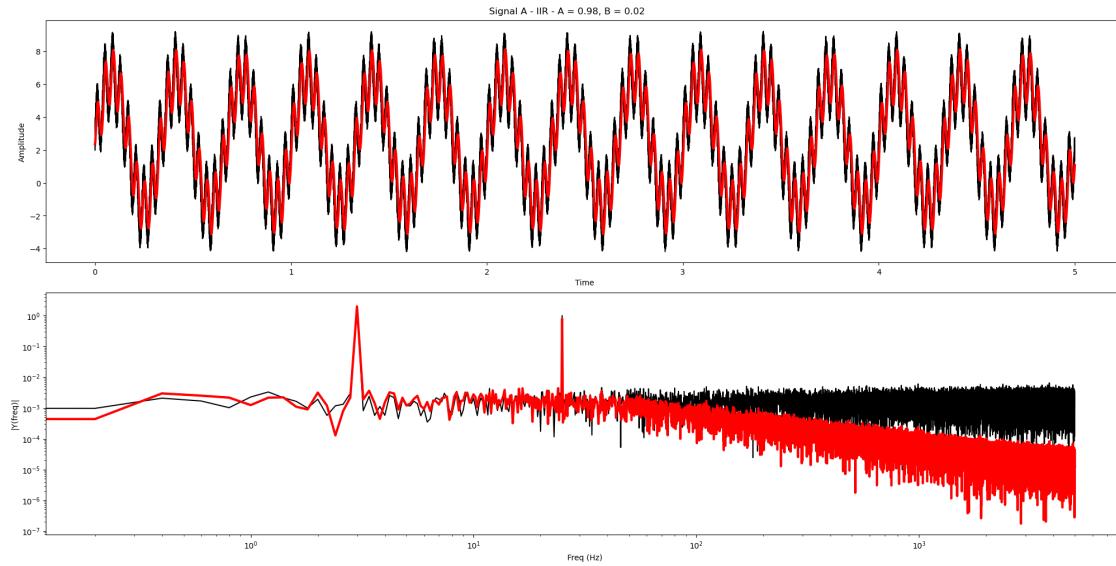
```
[297]: A = 0.98
B = 1 - A
fil = 2
filtered_data = IIR(data1, size_of_t, A, B)

FFT_grapher(t, data1, sample_rate, sig, filtered_data, fil, "A = 0.98, B = 0.
˓→02")
```

```
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:1
9: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, y, 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
0: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, z, 'b', label='Filtered', markersize=10, linewidth=3, color='red')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
4: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax2.loglog(frq, abs(Y), 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black') # plotting the fft
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
5: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
```

precedence.

```
ax2.loglog(frq, abs(Z), 'b', label='Filtered', markersize=5, linewidth=3,
color='red') # plotting the fft
```



## 2.2 FIR Filter

```
[298]: X = 77
sig_weights = [
    0.001039916658656899,
    0.001314019728261469,
    0.001628278245544688,
    0.001984363738200073,
    0.002383614945968861,
    0.002827001373267139,
    0.003315090176118976,
    0.003848016983390353,
    0.004425461210015958,
    0.005046626367946176,
    0.005710225819519894,
    0.006414474348663073,
    0.007157085848655646,
    0.007935277342277518,
    0.008745779462141867,
    0.009584853427264450,
    0.010448314457800560,
    0.011331561474869013,
    0.012229612837977194,
    0.013137147780275110,
```

0.014048553113200133,  
0.014957974688487153,  
0.015859373028405014,  
0.016746582465742982,  
0.017613373074701264,  
0.018453514623491533,  
0.019260841740028428,  
0.020029319454322365,  
0.020753108265612972,  
0.021426627879263988,  
0.022044618768125305,  
0.022602200735399276,  
0.023094927690768610,  
0.023518837898188084,  
0.023870499011655368,  
0.024147047283615240,  
0.024346220408402230,  
0.024466383549122075,  
0.024506548189305581,  
0.024466383549122075,  
0.024346220408402230,  
0.024147047283615240,  
0.023870499011655368,  
0.023518837898188084,  
0.023094927690768610,  
0.022602200735399276,  
0.022044618768125305,  
0.021426627879263981,  
0.020753108265612972,  
0.020029319454322365,  
0.019260841740028421,  
0.018453514623491533,  
0.017613373074701264,  
0.016746582465742985,  
0.015859373028405014,  
0.014957974688487152,  
0.014048553113200133,  
0.013137147780275110,  
0.012229612837977194,  
0.011331561474869013,  
0.010448314457800560,  
0.009584853427264450,  
0.008745779462141867,  
0.007935277342277518,  
0.007157085848655646,  
0.006414474348663073,  
0.005710225819519894,

```

0.005046626367946176,
0.004425461210015958,
0.003848016983390352,
0.003315090176118976,
0.002827001373267139,
0.002383614945968862,
0.001984363738200073,
0.001628278245544688,
0.001314019728261470,
0.001039916658656899,
]
filtered_data = FIR(data1, sig_weights, X, size_of_t)

plt.figure(figsize=(30, 15))
plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')

plt.xlabel('Time [s]')
plt.ylabel('Signal')
plt.title('Signal vs Time')

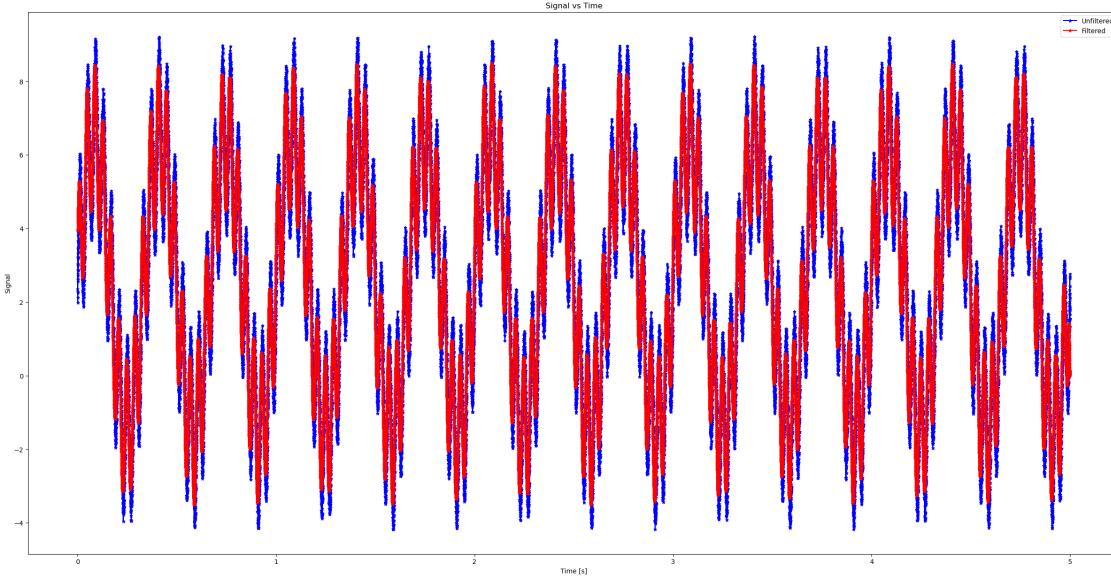
plt.legend()
plt.savefig("SigA FIR.png")
plt.show()

```

```

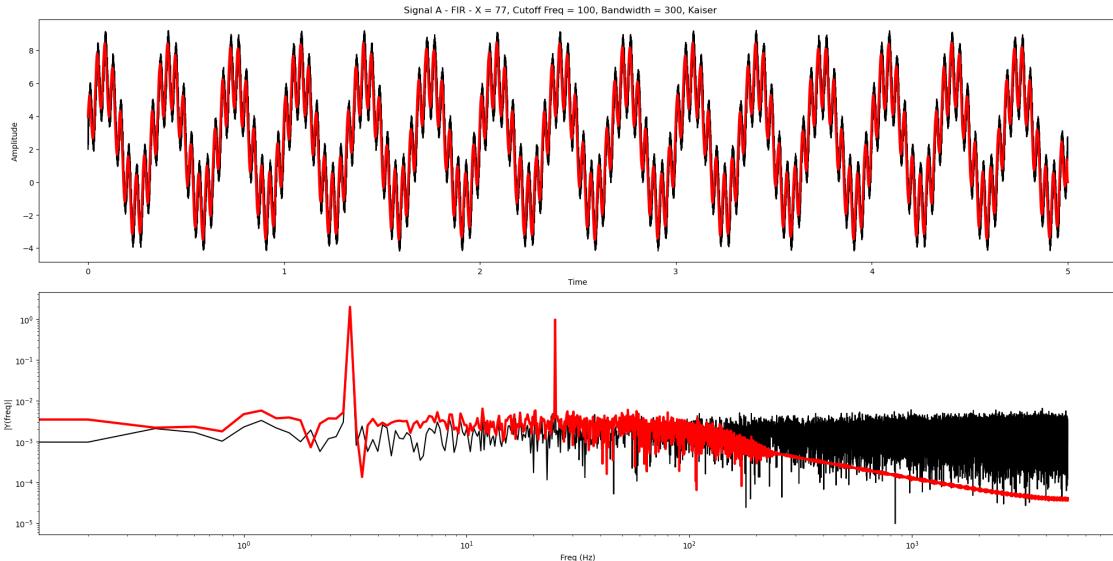
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2066900378.py:8
4: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2066900378.py:8
5: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')

```



```
[299]: fil = 3
FFT_grapher(t, data1, sample_rate, sig, filtered_data, fil, "X = 77, Cutoff =
↳Freq = 100, Bandwidth = 300, Kaiser")
```

```
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:1
9: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, y, 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
0: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, z, 'b', label='Filtered', markersize=10, linewidth=3, color='red')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
4: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax2.loglog(frq, abs(Y), 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black') # plotting the fft
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
5: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax2.loglog(frq, abs(Z), 'b', label='Filtered', markersize=5, linewidth=3,
color='red') # plotting the fft
```



[ ]:

### 3 Sig B

```
[300]: t = [] # column 0
data1 = [] # column 1
data2 = [] # column 2

with open('sigB.csv') as f:
    # open the csv file
    reader = csv.reader(f)
    for row in reader:
        # read the rows 1 one by one
        t.append(float(row[0])) # leftmost column
        data1.append(float(row[1])) # second column
        #data2.append(float(row[2])) # third column

size_of_t = len(t)
sample_rate = size_of_t/t[-1]
sig = 2
#print("Size of t:", size_of_t)

for i in range(size_of_t):
    # print the data to verify it was read
    #print(str(t[i]) + ", " + str(data1[i]) + ", " + str(data2[i]))
    print(str(t[i]) + ", " + str(data1[i]))
```

0.0, 6.19194348432419

0.00030303030303030303, 2.420961652128782  
0.0006060606060606061, 12.683304962342826  
0.0009090909090909091, 11.781546285711093  
0.00121212121212121, 13.414530269782018  
0.00151515151515152, 2.1049010560566943  
0.00181818181818182, 5.111956457649884  
0.0021212121212121, 13.408418973079362  
0.0024242424242424242, 6.002596213276581  
0.0027272727272727275, 12.69435129203266  
0.0030303030303030303, 10.384197824186582  
0.003333333333333333, 7.884874947419641  
0.0036363636363636364, 7.87326989351076  
0.00393939393939394, 15.922856146674379  
0.004242424242424242, 4.183723707038258  
0.004545454545454545, 9.702544366818973  
0.00484848484848485, 7.178395272281764  
0.0051515151515152, 13.995006868884705  
0.005454545454545455, 9.320393842263716  
0.005757575757575757, 7.332594058129463  
0.006060606060606061, 9.884185322405141  
0.006363636363636364, 11.386907519378315  
0.00666666666666666666, 14.85270129373345  
0.0069696969696969695, 2.445746194737141  
0.007272727272727273, 4.217496986358166  
0.007575757575757576, 7.056559134249932  
0.00787878787878788, 5.195379351012231  
0.0081818181818182, 13.561134968125565  
0.008484848484848484, 12.740209039559502  
0.008787878787878787, 11.577239505182154  
0.00909090909090909, 4.992706867396152  
0.009393939393939394, 15.506898745658544  
0.00969696969696969697, 6.339222328874612  
0.01, 10.401782427057153  
0.0103030303030303, 9.920194419524533  
0.010606060606060607, 7.6712203293092855  
0.01090909090909091, 8.209924667929894  
0.0112121212121211, 12.230936377127321  
0.0115151515151515, 8.05436697608796  
0.0118181818181818, 6.08216195016706  
0.0121212121212121, 5.172287953336852  
0.01242424242424242, 15.958372426345742  
0.012727272727272728, 3.2768805457439427  
0.0130303030303031, 14.367721040518449  
0.013333333333333332, 13.504910257831584  
0.013636363636363636, 7.039880835661191  
0.013939393939393939, 11.679218487356321  
0.014242424242424242, 5.321469728152628  
0.014545454545454545, 5.104148805183646

0.014848484848484849, 15.622509808263176  
0.0151515151515152, 8.49173284024126  
0.015454545454545455, 4.322959674789779  
0.01575757575757576, 14.647687603554589  
0.01606060606060606, 14.157170979816323  
0.016363636363636365, 9.151328994814712  
0.016666666666666666, 13.051235062217708  
0.016969696969696968, 8.330050082757033  
0.017272727272727273, 3.810386545792696  
0.017575757575757574, 16.38094560907516  
0.01787878787878788, 3.8561634534925338  
0.01818181818181818, 9.623682056961115  
0.018484848484848486, 10.18360191783189  
0.018787878787878787, 10.357807899250385  
0.019090909090909092, 15.721614186509344  
0.019393939393939394, 4.810267087972393  
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4.946666666666666, 12.924559210547809  
4.9469696969696967, 4.5912192328190535  
4.947272727272727, 10.761404166175302  
4.947575757575757, -1.4055581222088684  
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4.948181818181818, 13.255273411109503  
4.948484848484848, 0.6771759066024856  
4.948787878787879, 10.054959023873776  
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4.949393939393939, 0.8727704643368068  
4.949696969696969, 1.8100993348747947  
4.95, 10.802118077593668  
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4.95060606060606, 11.714831909633784  
4.950909090909091, 11.6064209411604  
4.951212121212121, 3.823998116769846  
4.9515151515151, 9.419873424033165  
4.951818181818182, 1.6200926322086362  
4.952121212121212, 5.4596263982428574  
4.952424242424242, 12.32514981225233  
4.952727272727273, 0.5063138789981472  
4.953030303030303, -0.21856077010704444  
4.953333333333333, 0.6861094866442343  
4.953636363636364, -0.27155895160522814  
4.953939393939394, 13.03295130894847  
4.954242424242424, 3.599392414362884  
4.954545454545454, 6.263537347054183  
4.954848484848485, 13.329544979470864  
4.955151515151515, 3.7056838202502584  
4.955454545454545, 8.240831056771142  
4.955757575757576, 2.8059700993584027  
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4.956363636363636, 11.946125287890128  
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4.956969696969697, 6.83326761061605  
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4.957575757575758, 8.437394820732978  
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4.958181818181818, 1.8866526887350878  
4.958484848484848, 12.133469846969232  
4.958787878787879, 4.17593753635646  
4.959090909090909, 9.308757262680873  
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4.962121212121212, 13.093604067326478  
4.962424242424243, 11.89016580281129  
4.962727272727273, 10.480498706017128  
4.963030303030303, 6.752585348526322  
4.963333333333333, 1.4922066707829122  
4.963636363636364, 11.807704417079712  
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4.964242424242424, 13.339969167238085  
4.964545454545455, 5.137123608439626  
4.964848484848485, 10.069206343580205  
4.965151515151515, 8.711693625971904  
4.965454545454546, 13.123317143119705  
4.965757575757576, -0.21154557292129783  
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4.966363636363637, 6.848004124509697  
4.9666666666666667, 0.1836260071991198  
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4.967272727272727, 0.7011255707206259  
4.967575757575758, 13.344499330669471  
4.967878787878788, 4.369055183211269  
4.968181818181818, 9.221631126728079  
4.968484848484849, 10.354578423971956  
4.968787878787879, 6.8165835428057875  
4.969090909090909, 4.453426665781531  
4.96939393939394, 1.9953950596398091  
4.96969696969697, 13.302966496819666  
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4.970606060606061, 10.76693443966489  
4.970909090909091, 3.419204558405817  
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4.9715151515152, 11.911697808845071  
4.9718181818182, 6.05833553162309  
4.972121212121212, 7.496406460774569  
4.972424242424243, 13.000684132601052  
4.972727272727273, 5.998509592842261  
4.973030303030303, 9.804250833140511  
4.973333333333334, 0.11819374940707394  
4.973636363636364, 0.34980557719948346  
4.973939393939394, 14.644822393750793  
4.974242424242425, 6.537184747699312  
4.974545454545455, 6.370322487696436

4.974848484848485, 13.739472013035966  
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4.975454545454546, 1.2484656925761801  
4.975757575757576, 2.6303436131834905  
4.976060606060606, 12.289966413209054  
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4.9766666666666667, 1.2238134272847911  
4.976969696969697, 4.552980074044491  
4.9772727272727275, 12.833410192724983  
4.9775757575757575, 10.106519435355928  
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4.9784848484848485, 3.461158418582306  
4.9787878787878785, 2.064562473747399  
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4.9796969696969695, 8.306088080328138  
4.98, 13.270739771435185  
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4.9806060606060605, 12.997266430855198  
4.9809090909090905, 13.074447803288592  
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4.9815151515151515, 9.433428281124584  
4.9818181818181815, 1.2356516697506523  
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4.982424242424242, 4.992680393955436  
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4.983030303030303, 12.499876563948774  
4.983333333333333, 3.946513718773962  
4.983636363636363, 2.272758683971356  
4.983939393939394, 9.957443150044163  
4.984242424242424, 3.5797198325074766  
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4.984848484848484, 14.409961679151621  
4.985151515151515, 12.048516242007102  
4.985454545454545, 0.9368331709214441  
4.985757575757575, 12.39360456845813  
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4.986363636363636, 6.660740326853709  
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4.987575757575757, 8.015836650478837  
4.987878787878788, 14.721947718733071  
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4.988484848484848, 11.63750034693336  
4.988787878787879, 8.868498526352885  
4.989090909090909, 4.062659957972656

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4.989696969696969, 3.0437194735054947
4.99, 2.525360167785477
4.99030303030303, 5.172755474942697
4.99060606060606, 5.046359034262425
4.990909090909091, 14.562092250619507
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4.991515151515151, 11.175581870427441
4.991818181818182, 5.8745264913281945
4.992121212121212, 8.545646524051119
4.992424242424242, 7.278107300368783
4.992727272727273, 5.824627763632828
4.993030303030303, 15.330622434686253
4.993333333333333, 11.892447523573892
4.993636363636363, 7.497365498264814
4.993939393939394, 6.749692452025746
4.994242424242424, 2.629559772463481
4.994545454545454, 2.125263833035357
4.994848484848485, 3.2936901515150323
4.995151515151515, 1.8643519178602133
4.995454545454545, 15.77596447470073
4.995757575757576, 6.81068589803441
4.996060606060606, 8.344039875025057
4.996363636363636, 16.253892115203872
4.9966666666666667, 10.583880050951441
4.996969696969697, 14.34366818503161
4.997272727272727, 10.703988257478642
4.997575757575758, 13.603797950933712
4.997878787878788, 4.862812712461414
4.998181818181818, 14.894895067996117
4.998484848484848, 6.8580074014804335
4.998787878787879, 14.3156706718639
4.999090909090909, 12.31354650058229
4.999393939393939, 9.334726162626378
4.99969696969697, 6.938668190058274
```

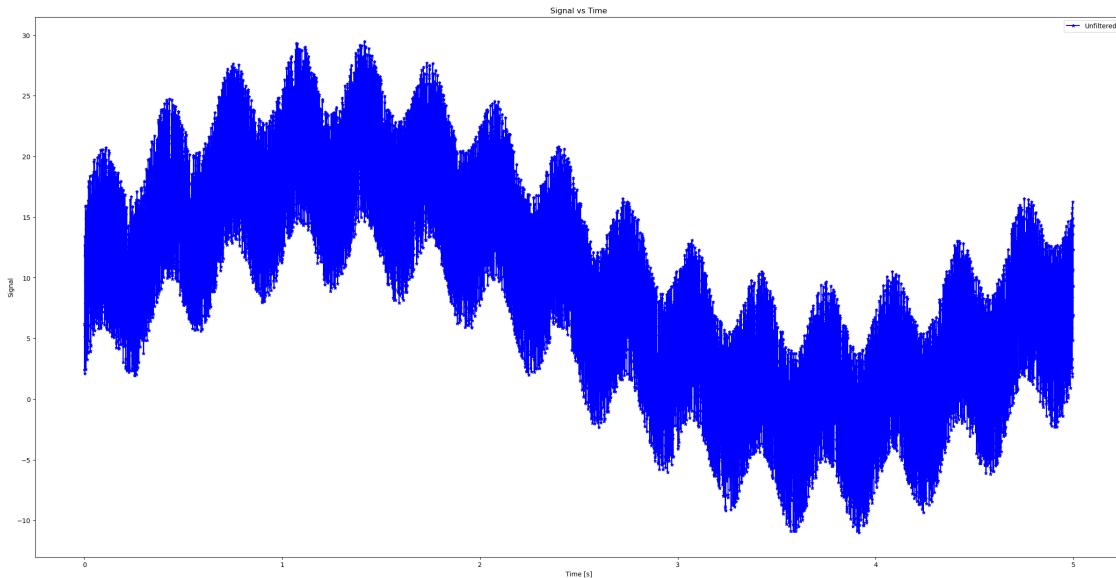
```
[242]: print(sample_rate)
```

```
3300.2000121219467
```

```
[301]: plt.figure(figsize=(30, 15))
plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5)
plt.xlabel('Time [s]')
plt.ylabel('Signal')
plt.title('Signal vs Time')

plt.legend()
# plt.savefig("Line Trajectory.png")
```

```
plt.show()
```



### 3.1 MAF

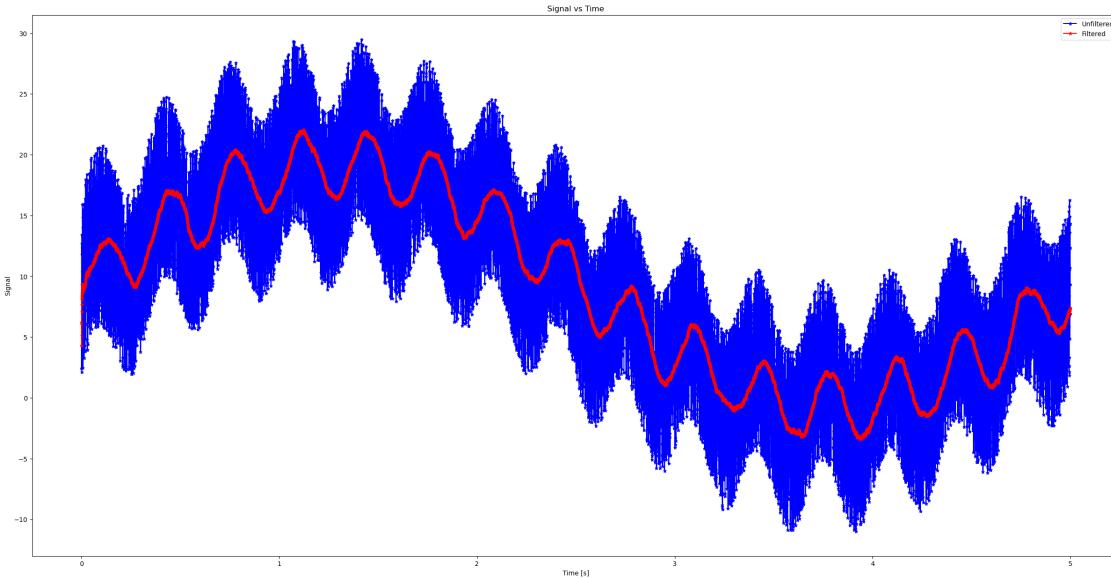
```
[302]: X = 200
filtered_data = MAF(data1, X, size_of_t)

plt.figure(figsize=(30, 15))
plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')

plt.xlabel('Time [s]')
plt.ylabel('Signal')
plt.title('Signal vs Time')

plt.legend()
plt.savefig("SigB MAF.png")
plt.show()
```

```
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/3231803054.py:5
: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/3231803054.py:6
: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')
```

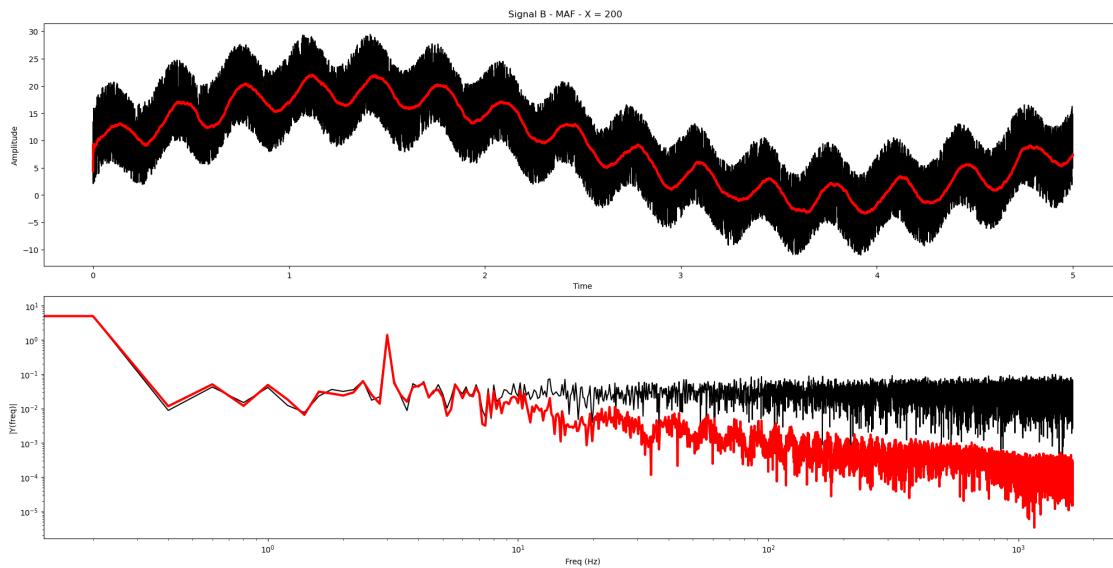


```
[303]: X = 200
fil = 1
filtered_data = MAF(data1, X, size_of_t)

FFT_grapher(t, data1, sample_rate, sig, filtered_data, fil, "X = 200")

/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy4000gn/T/ipykernel_41392/2018352675.py:1
9: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, y, 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy4000gn/T/ipykernel_41392/2018352675.py:2
0: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, z, 'b', label='Filtered', markersize=10, linewidth=3, color='red')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy4000gn/T/ipykernel_41392/2018352675.py:2
4: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax2.loglog(frq, abs(Y), 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black') # plotting the fft
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy4000gn/T/ipykernel_41392/2018352675.py:2
5: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax2.loglog(frq, abs(Z), 'b', label='Filtered', markersize=5, linewidth=3,
```

```
color='red') # plotting the fft
```



### 3.2 IIR Filter

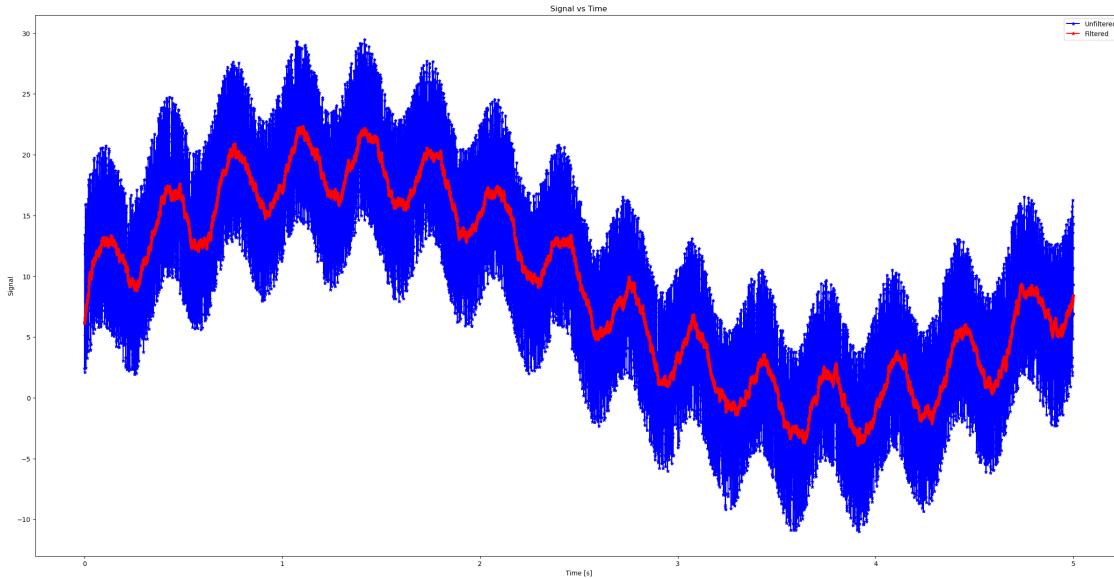
```
[304]: A = 0.98
B = 1 - A
filtered_data = IIR(data1, size_of_t, A, B)

plt.figure(figsize=(30, 15))
plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')

plt.xlabel('Time [s]')
plt.ylabel('Signal')
plt.title('Signal vs Time')

plt.legend()
plt.savefig("SigB IIR.png")
plt.show()
```

```
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/3819482122.py:6
: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/3819482122.py:7
: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')
```



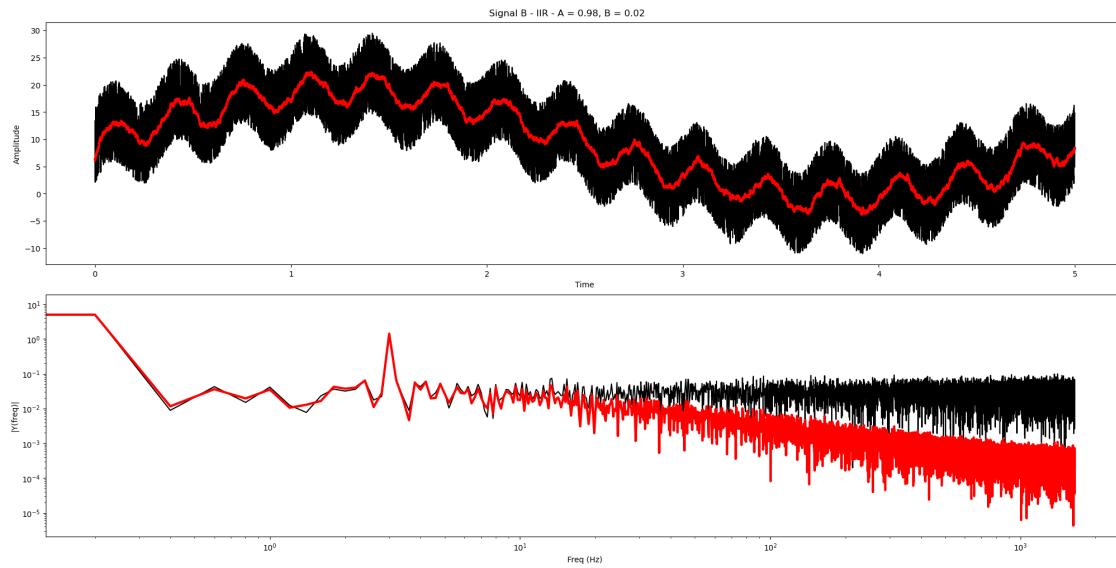
```
[305]: A = 0.98
B = 1 - A
fil = 2
filtered_data = IIR(data1, size_of_t, A, B)

FFT_grapher(t, data1, sample_rate, sig, filtered_data, fil, "A = 0.98, B = 0.
˓→02")
```

```
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:1
9: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, y, 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
0: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, z, 'b', label='Filtered', markersize=10, linewidth=3, color='red')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
4: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax2.loglog(frq, abs(Y), 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black') # plotting the fft
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
5: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
```

precedence.

```
ax2.loglog(frq, abs(Z), 'b', label='Filtered', markersize=5, linewidth=3,
color='red') # plotting the fft
```



### 3.3 FIR Filter

```
[306]: X = 57
sig_weights = [
    0.002519950945123121,
    0.003200555561023921,
    0.003965279177753558,
    0.004814153895085516,
    0.005745924142896251,
    0.006757989235817686,
    0.007846369256314174,
    0.009005695843324084,
    0.010229228970274864,
    0.011508900265511456,
    0.012835382871426267,
    0.014198187268322619,
    0.015585781918437234,
    0.016985737028058990,
    0.018384889194727038,
    0.019769524215066392,
    0.021125574889150081,
    0.022438830280488247,
    0.023695152586563791,
    0.024880697551324688,
```

```

0.025982134214395533,
0.026986859746124612,
0.027883205164918178,
0.028660627873392911,
0.029309887180230018,
0.029823199290609313,
0.030194368643030371,
0.030418892935587451,
0.030494039710043420,
0.030418892935587451,
0.030194368643030371,
0.029823199290609302,
0.029309887180230018,
0.028660627873392911,
0.027883205164918178,
0.026986859746124612,
0.025982134214395530,
0.024880697551324688,
0.023695152586563791,
0.022438830280488247,
0.021125574889150081,
0.019769524215066402,
0.018384889194727038,
0.016985737028058990,
0.015585781918437234,
0.014198187268322619,
0.012835382871426267,
0.011508900265511456,
0.010229228970274864,
0.009005695843324084,
0.007846369256314170,
0.006757989235817686,
0.005745924142896251,
0.004814153895085517,
0.003965279177753558,
0.003200555561023923,
0.002519950945123121,
]
filtered_data = FIR(data1, sig_weights, X, size_of_t)

plt.figure(figsize=(30, 15))
plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')

plt.xlabel('Time [s]')
plt.ylabel('Signal')
plt.title('Signal vs Time')

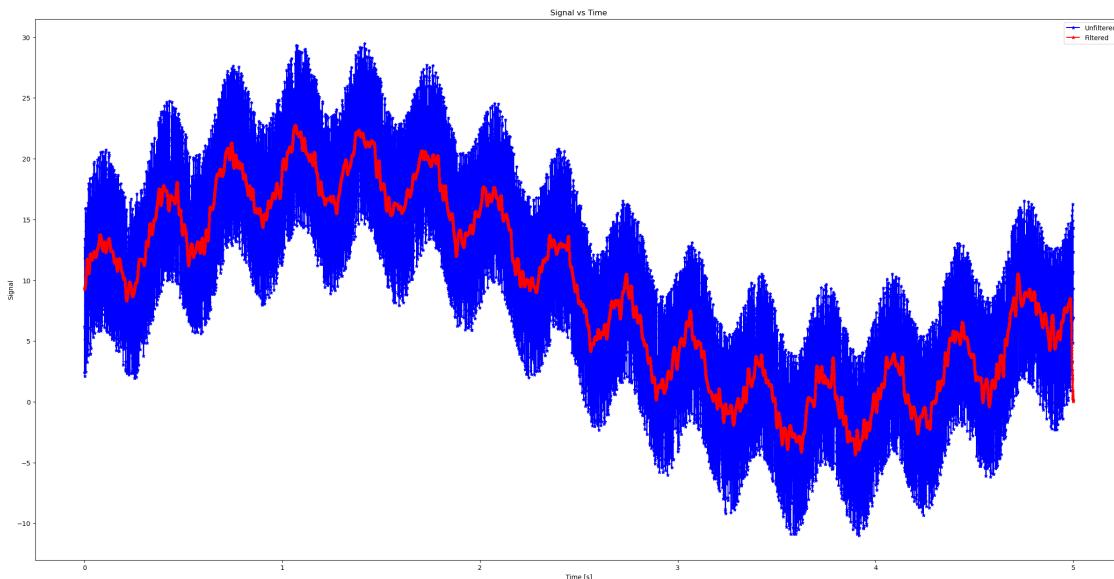
```

```

plt.legend()
plt.savefig("SigB FIR.png")
plt.show()

/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/93799539.py:64:
UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/93799539.py:65:
UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')

```



```
[307]: fil = 3
FFT_grapher(t, data1, sample_rate, sig, filtered_data, fil, "X = 57, Cutoff =
↳ Freq = 33, Bandwidth = 132, Kaiser")
```

```

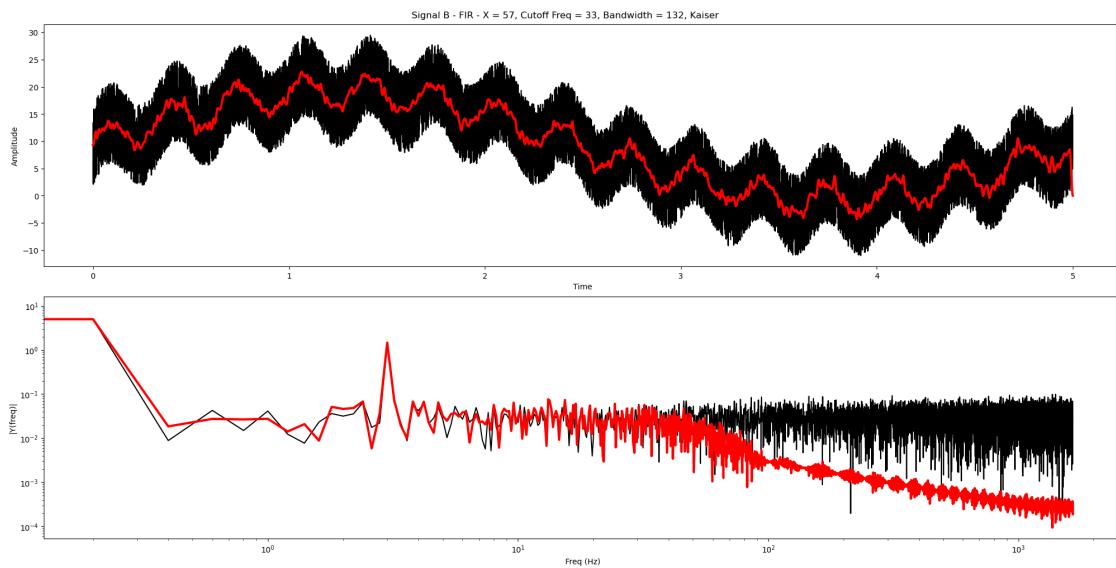
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:1
9: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, y, 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
0: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, z, 'b', label='Filtered', markersize=10, linewidth=3, color='red')

```

```

/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
4: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax2.loglog(frq, abs(Y), 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black') # plotting the fft
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
5: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax2.loglog(frq, abs(Z), 'b', label='Filtered', markersize=5, linewidth=3,
color='red') # plotting the fft

```



## 4 Sig C

```

[308]: t = [] # column 0
data1 = [] # column 1
data2 = [] # column 2

with open('sigC.csv') as f:
    # open the csv file
    reader = csv.reader(f)
    for row in reader:
        # read the rows 1 one by one
        t.append(float(row[0])) # leftmost column
        data1.append(float(row[1])) # second column
        #data2.append(float(row[2])) # third column

```

```

size_of_t = len(t)
sample_rate = size_of_t/t[-1]
sig = 3
#print("Size of t:", size_of_t)

for i in range(size_of_t):
    # print the data to verify it was read
    #print(str(t[i]) + ", " + str(data1[i]) + ", " + str(data2[i]))
    print(str(t[i]) + ", " + str(data1[i]))

```

```

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7.9516, 10.0  
7.952, 10.0  
7.952400000000001, 10.0  
7.952800000000001, 10.0  
7.953200000000001, 10.0  
7.953600000000001, 10.0  
7.954000000000001, 10.0  
7.954400000000001, 10.0  
7.954800000000005, 10.0  
7.955200000000005, 10.0  
7.955600000000004, 10.0  
7.956, 10.0  
7.9564, 10.0  
7.9568, 10.0  
7.9572, 10.0  
7.9576, 10.0  
7.958, 10.0  
7.9584, 10.0  
7.9588, 10.0  
7.9592, 10.0  
7.9596, 10.0  
7.96, 10.0  
7.960400000000001, 10.0  
7.960800000000001, 10.0  
7.961200000000001, 10.0  
7.961600000000001, 10.0  
7.962000000000001, 10.0  
7.962400000000001, 10.0  
7.962800000000005, 10.0  
7.963200000000005, 10.0  
7.963600000000005, 10.0

7.964, 10.0  
7.9644, 10.0  
7.9648, 10.0  
7.9652, 10.0  
7.9656, 10.0  
7.966, 10.0  
7.9664, 10.0  
7.9668, 10.0  
7.9672, 10.0  
7.9676, 10.0  
7.968, 10.0  
7.968400000000001, 10.0  
7.968800000000001, 10.0  
7.969200000000001, 10.0  
7.969600000000001, 10.0  
7.970000000000001, 10.0  
7.970400000000001, 10.0  
7.970800000000006, 10.0  
7.971200000000005, 10.0  
7.971600000000005, 10.0  
7.972, 10.0  
7.9724, 10.0  
7.9728, 10.0  
7.9732, 10.0  
7.9736, 10.0  
7.974, 10.0  
7.9744, 10.0  
7.9748, 10.0  
7.9752, 10.0  
7.9756, 10.0  
7.976, 10.0  
7.976400000000001, 10.0  
7.976800000000001, 10.0  
7.977200000000001, 10.0  
7.977600000000001, 10.0  
7.978000000000001, 10.0  
7.978400000000001, 10.0  
7.978800000000001, 10.0  
7.979200000000005, 10.0  
7.979600000000005, 10.0  
7.98, 10.0  
7.9804, 10.0  
7.9808, 10.0  
7.9812, 10.0  
7.9816, 10.0  
7.982, 10.0  
7.9824, 10.0  
7.9828, 10.0

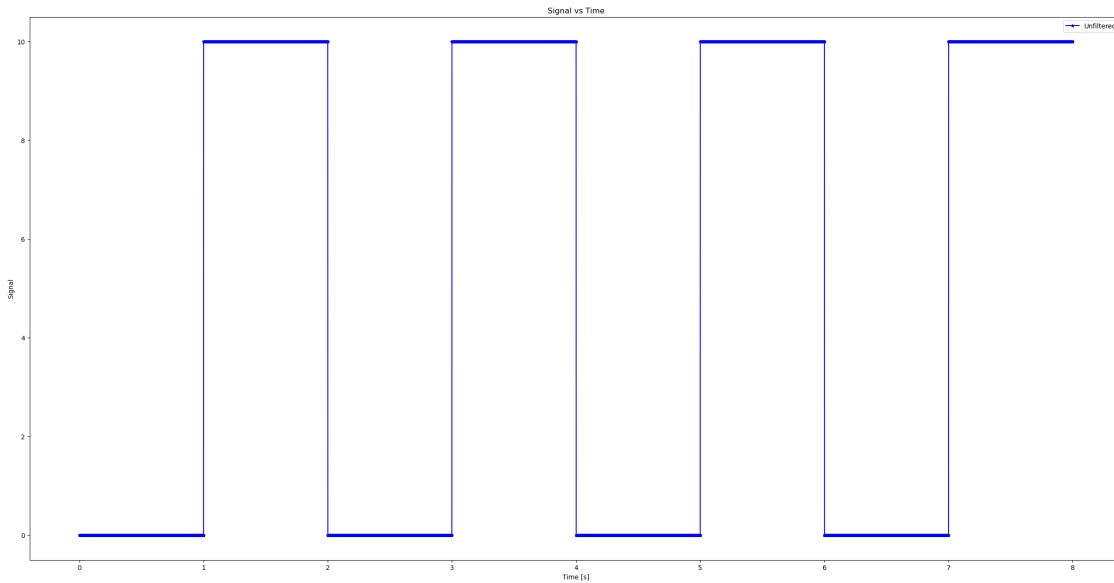
```
7.9832, 10.0
7.9836, 10.0
7.984, 10.0
7.9844, 10.0
7.984800000000001, 10.0
7.985200000000001, 10.0
7.985600000000001, 10.0
7.986000000000001, 10.0
7.986400000000001, 10.0
7.986800000000001, 10.0
7.987200000000005, 10.0
7.987600000000005, 10.0
7.988, 10.0
7.9884, 10.0
7.9888, 10.0
7.9892, 10.0
7.9896, 10.0
7.99, 10.0
7.9904, 10.0
7.9908, 10.0
7.9912, 10.0
7.9916, 10.0
7.992, 10.0
7.9924, 10.0
7.992800000000001, 10.0
7.993200000000001, 10.0
7.993600000000001, 10.0
7.994000000000001, 10.0
7.994400000000001, 10.0
7.994800000000001, 10.0
7.995200000000005, 10.0
7.995600000000005, 10.0
7.996, 10.0
7.9964, 10.0
7.9968, 10.0
7.9972, 10.0
7.9976, 10.0
7.998, 10.0
7.9984, 10.0
7.9988, 10.0
7.9992, 10.0
7.9996, 10.0
```

```
[309]: print(sample_rate)
```

```
2500.1250062503127
```

```
[310]: plt.figure(figsize=(30, 15))
plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5)
plt.xlabel('Time [s]')
plt.ylabel('Signal')
plt.title('Signal vs Time')

plt.legend()
# plt.savefig("Line Trajectory.png")
plt.show()
```



## 4.1 MAF

```
[311]: X = 100
filtered_data = MAF(data1, X, size_of_t)

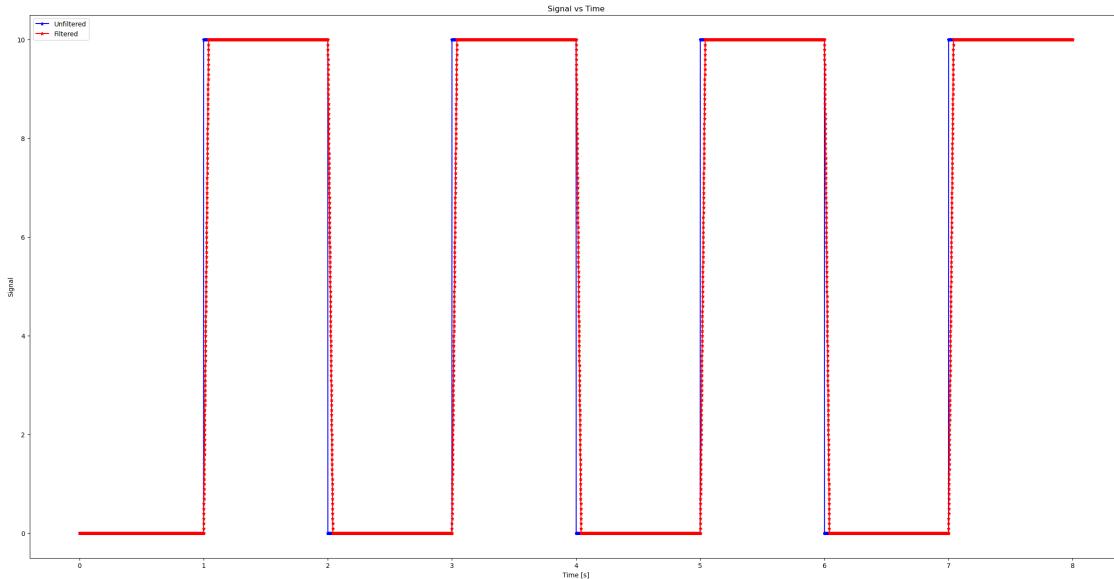
plt.figure(figsize=(30, 15))
plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')

plt.xlabel('Time [s]')
plt.ylabel('Signal')
plt.title('Signal vs Time')

plt.legend()
plt.savefig("SigC MAF.png")
plt.show()
```

/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel\_41392/1255814910.py:5

```
: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy4000gn/T/ipykernel_41392/1255814910.py:6
: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')
```



[312]:

```
X = 100
fil = 1
filtered_data = MAF(data1, X, size_of_t)

FFT_grapher(t, data1, sample_rate, sig, filtered_data, fil, "X = 100")
```

/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy4000gn/T/ipykernel\_41392/2018352675.py:1
9: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.

```
ax1.plot(t, y, 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black')
```

/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy4000gn/T/ipykernel\_41392/2018352675.py:2
0: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.

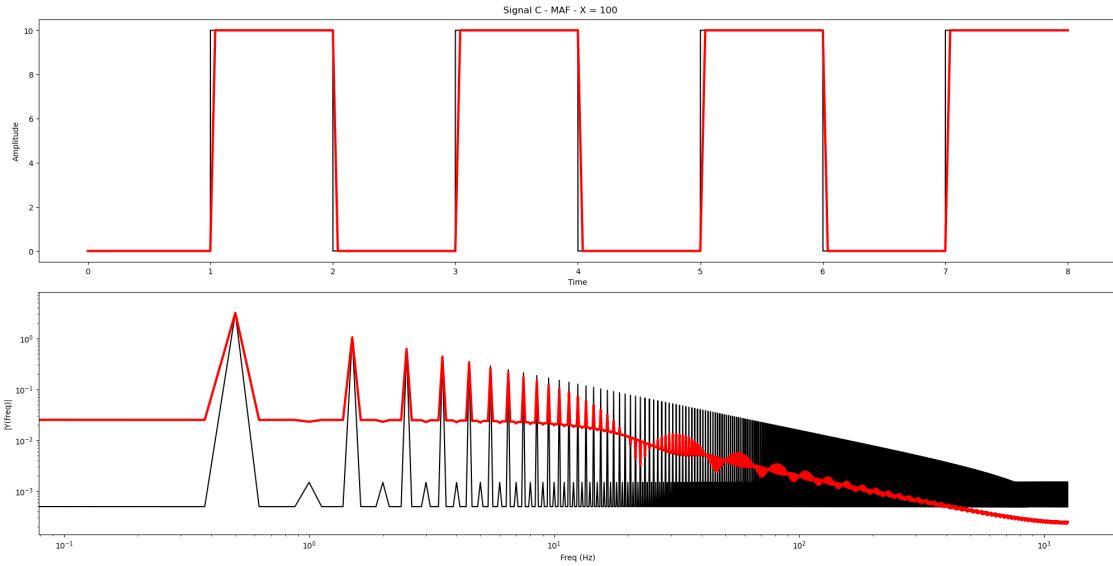
```
ax1.plot(t, z, 'b', label='Filtered', markersize=10, linewidth=3, color='red')
```

/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy4000gn/T/ipykernel\_41392/2018352675.py:2
4: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.

```

ax2.loglog(frq, abs(Y), 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black') # plotting the fft
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
5: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
ax2.loglog(frq, abs(Z), 'b', label='Filtered', markersize=5, linewidth=3,
color='red') # plotting the fft

```



## 4.2 IIR Filter

```

[313]: A = 0.98
B = 1 - A
filtered_data = IIR(data1, size_of_t, A, B)

plt.figure(figsize=(30, 15))
plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')

plt.xlabel('Time [s]')
plt.ylabel('Signal')
plt.title('Signal vs Time')

plt.legend()
plt.savefig("SigC IIR.png")
plt.show()

```

```

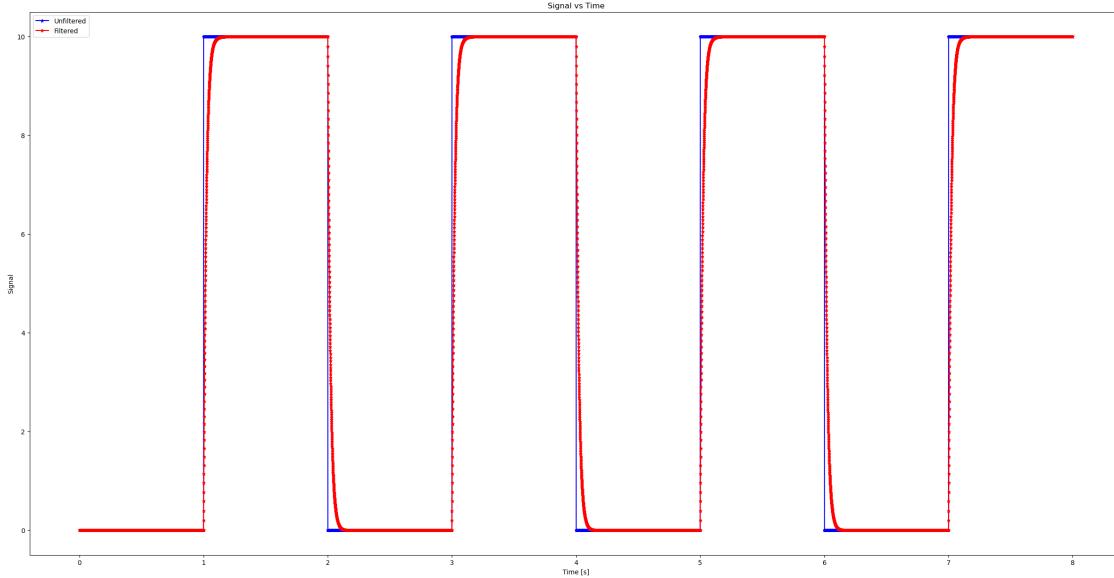
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/1467525224.py:6
5: UserWarning: color is redundantly defined by the 'color' keyword argument and

```

```

the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/1467525224.py:7
: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')

```



```

[314]: A = 0.98
B = 1 - A
fil = 2
filtered_data = IIR(data1, size_of_t, A, B)

FFT_grapher(t, data1, sample_rate, sig, filtered_data, fil, "A = 0.98, B = 0.
˓→02")

```

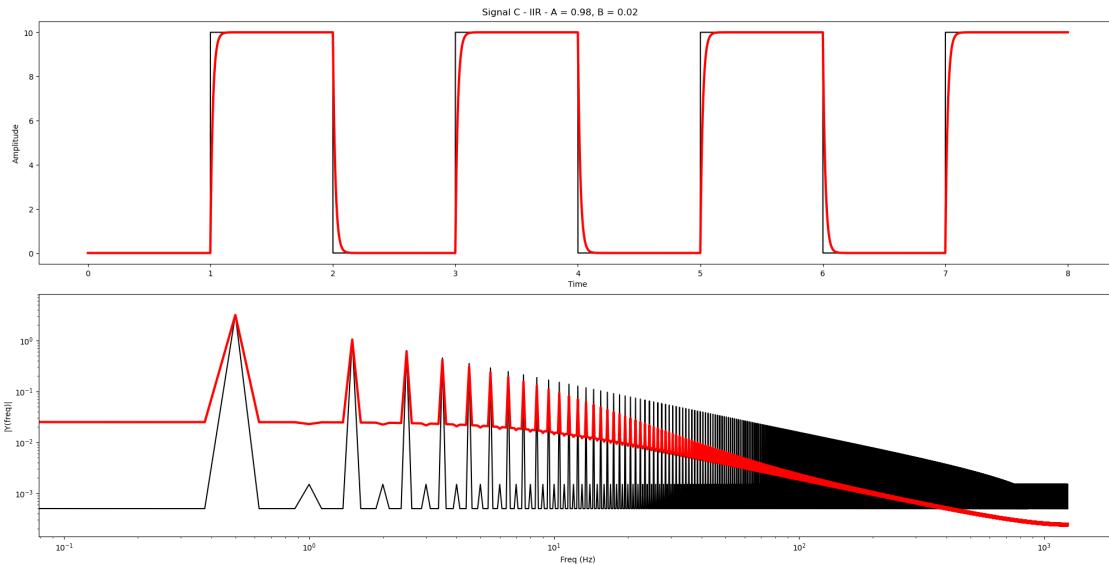
```

/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:1
9: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, y, 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
0: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, z, 'b', label='Filtered', markersize=10, linewidth=3, color='red')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
4: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take

```

precedence.

```
    ax2.loglog(frq, abs(Y), 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black') # plotting the fft
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
5: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax2.loglog(frq, abs(Z), 'b', label='Filtered', markersize=5, linewidth=3,
color='red') # plotting the fft
```



### 4.3 FIR Filter

[315] : X = 113

```
sig_weights = [
    -0.000315899445860029,
    -0.000298246662371602,
    -0.000268362674481761,
    -0.000224913258210665,
    -0.000166570596860926,
    -0.000092025500132016,
    0.00000000000000000000,
    0.000110739787368416,
    0.000241370650361638,
    0.000392999242896408,
    0.000566649142895299,
    0.000763248136026432,
    0.000983615853665640,
    0.001228451893926448,
```

0.001498324553147611,  
0.001793660292421461,  
0.002114734059594157,  
0.002461660581690785,  
0.002834386735948999,  
0.003232685099633646,  
0.003656148769615510,  
0.004104187532407475,  
0.004576025454051566,  
0.005070699947043604,  
0.005587062358482819,  
0.006123780109966024,  
0.006679340405543276,  
0.007252055509454795,  
0.007840069580524448,  
0.008441367035143997,  
0.009053782395898761,  
0.009675011568214553,  
0.010302624473101488,  
0.010934078950285555,  
0.011566735832900748,  
0.012197875082606301,  
0.012824712862629319,  
0.013444419415940170,  
0.014054137606660489,  
0.014651001974987594,  
0.015232158149484604,  
0.015794782455609321,  
0.016336101555901695,  
0.016853411955362468,  
0.017344099205268547,  
0.017805656639994082,  
0.018235703484339075,  
0.018632002173388694,  
0.018992474732998067,  
0.019315218076567404,  
0.019598518082770040,  
0.019840862329236174,  
0.020040951368780029,  
0.020197708447473019,  
0.020310287577587613,  
0.020378079893028370,  
0.020400718230184526,  
0.020378079893028370,  
0.020310287577587613,  
0.020197708447473019,  
0.020040951368780029,

0.019840862329236174,  
0.019598518082770033,  
0.019315218076567404,  
0.018992474732998067,  
0.018632002173388694,  
0.018235703484339075,  
0.017805656639994082,  
0.017344099205268547,  
0.016853411955362461,  
0.016336101555901695,  
0.015794782455609321,  
0.015232158149484601,  
0.014651001974987594,  
0.014054137606660489,  
0.013444419415940176,  
0.012824712862629319,  
0.012197875082606301,  
0.011566735832900748,  
0.010934078950285548,  
0.010302624473101488,  
0.009675011568214553,  
0.009053782395898765,  
0.008441367035143997,  
0.007840069580524448,  
0.007252055509454795,  
0.006679340405543276,  
0.006123780109966024,  
0.005587062358482819,  
0.005070699947043609,  
0.004576025454051566,  
0.004104187532407475,  
0.003656148769615510,  
0.003232685099633646,  
0.002834386735948999,  
0.002461660581690785,  
0.002114734059594157,  
0.001793660292421461,  
0.001498324553147611,  
0.001228451893926448,  
0.000983615853665640,  
0.000763248136026432,  
0.000566649142895299,  
0.000392999242896409,  
0.000241370650361638,  
0.000110739787368416,  
0.000000000000000000,  
-0.000092025500132016,

```

        -0.000166570596860926,
        -0.000224913258210665,
        -0.000268362674481761,
        -0.000298246662371602,
        -0.000315899445860029,
    ]
filtered_data = FIR(data1, sig_weights, X, size_of_t)

plt.figure(figsize=(30, 15))
plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')

plt.xlabel('Time [s]')
plt.ylabel('Signal')
plt.title('Signal vs Time')

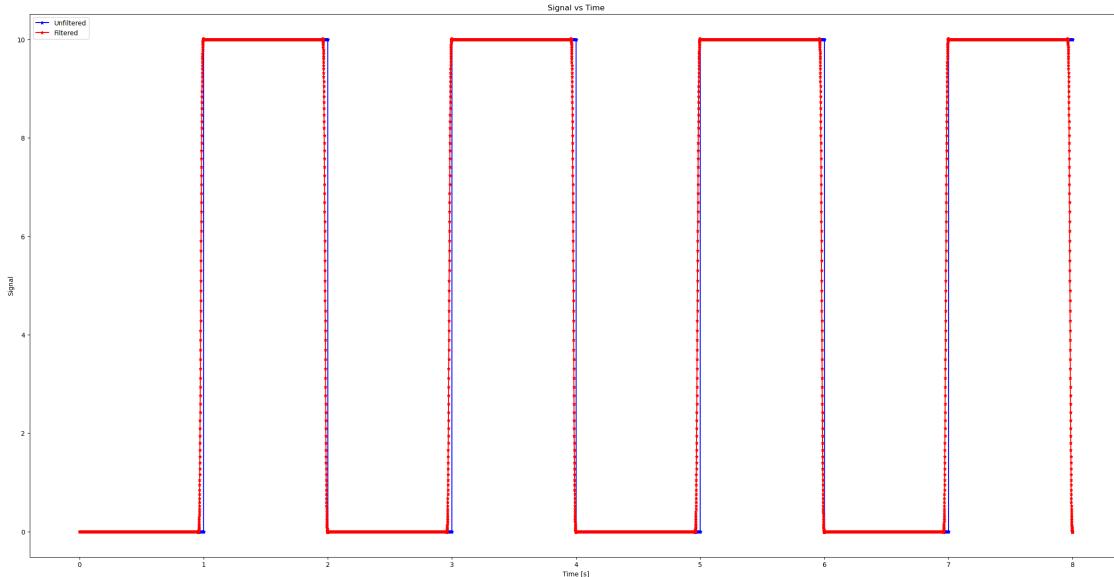
plt.legend()
plt.savefig("SigC FIR.png")
plt.show()

```

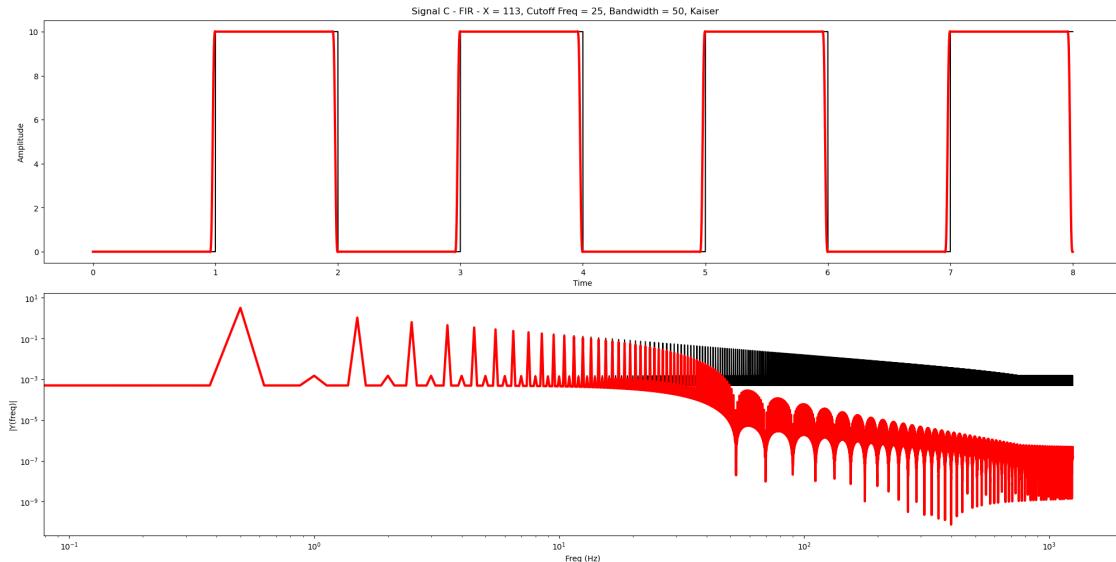
```

/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/196237390.py:12
0: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/196237390.py:12
1: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')

```



```
[316]: fil = 3
FFT_grapher(t, data1, sample_rate, sig, filtered_data, fil, "X = 113, Cutoff Freq = 25, Bandwidth = 50, Kaiser")
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:1
9: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, y, 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
0: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, z, 'b', label='Filtered', markersize=10, linewidth=3, color='red')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
4: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax2.loglog(frq, abs(Y), 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black') # plotting the fft
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
5: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax2.loglog(frq, abs(Z), 'b', label='Filtered', markersize=5, linewidth=3,
color='red') # plotting the fft
```



```
[ ]:
```

## 5 Sig D

```
[317]: t = [] # column 0
data1 = [] # column 1
data2 = [] # column 2

with open('sigD.csv') as f:
    # open the csv file
    reader = csv.reader(f)
    for row in reader:
        # read the rows 1 one by one
        t.append(float(row[0])) # leftmost column
        data1.append(float(row[1])) # second column
        #data2.append(float(row[2])) # third column

size_of_t = len(t)
sample_rate = size_of_t/t[-1]
sig = 4
#print("Size of t:", size_of_t)

for i in range(size_of_t):
    # print the data to verify it was read
    #print(str(t[i]) + ", " + str(data1[i]) + ", " + str(data2[i]))
    print(str(t[i]) + ", " + str(data1[i]))
```

0.0, -0.0379  
0.0025, -0.0089  
0.005, -0.0331  
0.0075, -0.0234  
0.01, 0.0225  
0.0125, -0.0331  
0.015, -0.0621  
0.0175, -0.0717  
0.02, -0.021  
0.0225, -0.0476  
0.025, -0.0113  
0.0275, 0.0225  
0.03, -0.0427  
0.0325, -0.0572  
0.035, -0.0065  
0.0375, -0.0161  
0.04, -0.0282  
0.0425, 0.0225  
0.045, 0.0056  
0.0475, -0.0137  
0.05, -0.0161  
0.0525, -0.0016  
0.055, -0.0331

0.0575, 0.0153  
0.06, 0.0371  
0.0625, -0.0186  
0.065, -0.0379  
0.0675, -0.0137  
0.07, 0.0225  
0.0725, -0.0186  
0.075, -0.0113  
0.0775, 0.0105  
0.08, -0.0113  
0.0825, -0.0016  
0.085, 0.0298  
0.0875, -0.0137  
0.09, 0.0056  
0.0925, 0.0346  
0.095, 0.0225  
0.0975, -0.004  
0.1, -0.0258  
0.1025, 0.0419  
0.105, 0.0056  
0.1075, 0.0516  
0.11, 0.0661  
0.1125, 0.0129  
0.115, 0.008  
0.1175, -0.0137  
0.12, 0.0443  
0.1225, 0.0153  
0.125, 0.0443  
0.1275, 0.083  
0.13, 0.0008  
0.1325, -0.0113  
0.135, 0.0274  
0.1375, 0.0371  
0.14, 0.0298  
0.1425, 0.0588  
0.145, 0.0105  
0.1475, -0.0113  
0.15, 0.0056  
0.1525, 0.0129  
0.155, -0.0137  
0.1575, 0.0322  
0.16, 0.0346  
0.1625, 0.0129  
0.165, -0.0379  
0.1675, -0.0161  
0.17, -0.0282  
0.1725, -0.0621  
0.175, -0.0161

0.1775, -0.0403  
0.18, -0.0717  
0.1825, -0.0814  
0.185, -0.0476  
0.1875, -0.0717  
0.19, -0.1032  
0.1925, -0.0669  
0.195, -0.079  
0.1975, -0.1177  
0.2, -0.108  
0.2025, -0.0814  
0.205, -0.1249  
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10.4925, 0.4578  
10.495, 0.4868

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10.5175, 0.5279  
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10.5275, 0.4723  
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10.5425, 0.5182  
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10.5575, 0.552  
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10.5725, 0.5641  
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10.5775, 0.54  
10.58, 0.5762  
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10.5925, 0.5424  
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10.5975, 0.5907  
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10.6075, 0.5932  
10.61, 0.552  
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10.625, 0.5762  
10.6275, 0.5666  
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10.6325, 0.6197  
10.635, 0.6391  
10.6375, 0.6415  
10.64, 0.6173  
10.6425, 0.5907  
10.645, 0.6125  
10.6475, 0.6222  
10.65, 0.6149  
10.6525, 0.6343  
10.655, 0.6536  
10.6575, 0.6246  
10.66, 0.5883  
10.6625, 0.6149  
10.665, 0.6246  
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10.705, 0.656  
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10.7175, 0.6609  
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10.725, 0.6101  
10.7275, 0.6343  
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10.7325, 0.6584  
10.735, 0.6802

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10.7425, 0.627  
10.745, 0.6488  
10.7475, 0.6681  
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10.7525, 0.6802  
10.755, 0.6923  
10.7575, 0.6536  
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10.7625, 0.656  
10.765, 0.6754  
10.7675, 0.6584  
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10.7725, 0.6995  
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10.9675, 0.2885  
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10.9725, 0.2861  
10.975, 0.2305

10.9775, 0.2522  
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10.9825, 0.2788  
10.985, 0.2982  
10.9875, 0.2813  
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10.9975, 0.2764  
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11.01, 0.2764  
11.0125, 0.2837  
11.015, 0.2764  
11.0175, 0.2764  
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11.0675, 0.332  
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11.0725, 0.3538  
11.075, 0.2982  
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11.0825, 0.3465  
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11.0875, 0.3997  
11.09, 0.349  
11.0925, 0.3103  
11.095, 0.3707

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11.1275, 0.4046  
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11.1475, 0.436  
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11.3575, 0.5762  
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11.3675, 0.6463  
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11.3775, 0.6415  
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11.3825, 0.6294  
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11.3875, 0.6778  
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11.405, 0.6729  
11.4075, 0.6294  
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11.4175, 0.6947  
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11.4425, 0.6512  
11.445, 0.6681  
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11.455, 0.6754

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11.47, 0.714  
11.4725, 0.6899  
11.475, 0.6778  
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11.4825, 0.7165  
11.485, 0.7334  
11.4875, 0.7431  
11.49, 0.6874  
11.4925, 0.6923  
11.495, 0.7213  
11.4975, 0.7261  
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11.5025, 0.7648  
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11.5075, 0.6802  
11.51, 0.7213  
11.5125, 0.7334  
11.515, 0.714  
11.5175, 0.7527  
11.52, 0.7745  
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11.5375, 0.7455  
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11.5525, 0.7793  
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11.5575, 0.6995  
11.56, 0.7261  
11.5625, 0.7334  
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11.5675, 0.7431  
11.57, 0.7455  
11.5725, 0.6899  
11.575, 0.6995

11.5775, 0.714  
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11.5825, 0.7044  
11.585, 0.7261  
11.5875, 0.7116  
11.59, 0.6681  
11.5925, 0.6318  
11.595, 0.6681  
11.5975, 0.6294  
11.6, 0.6512  
11.6025, 0.6439  
11.605, 0.6101  
11.6075, 0.5883  
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11.6175, 0.598  
11.62, 0.6197  
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11.625, 0.5448  
11.6275, 0.5617  
11.63, 0.5786  
11.6325, 0.552  
11.635, 0.5496  
11.6375, 0.5424  
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11.6425, 0.4868  
11.645, 0.4553  
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11.65, 0.5037  
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11.66, 0.4698  
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11.6675, 0.4747  
11.67, 0.4481  
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11.675, 0.3949  
11.6775, 0.4408  
11.68, 0.4408  
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11.7075, 0.3635  
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11.715, 0.3925  
11.7175, 0.4263  
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11.7225, 0.3949  
11.725, 0.3514  
11.7275, 0.3925  
11.73, 0.407  
11.7325, 0.3973  
11.735, 0.4505  
11.7375, 0.3901  
11.74, 0.3755  
11.7425, 0.3852  
11.745, 0.4021  
11.7475, 0.4167  
11.75, 0.4287  
11.7525, 0.4505  
11.755, 0.3925  
11.7575, 0.3659  
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11.7625, 0.4287  
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11.7675, 0.4529  
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11.7825, 0.4481  
11.785, 0.494  
11.7875, 0.4529  
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11.795, 0.465  
11.7975, 0.4336  
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11.805, 0.4795  
11.8075, 0.4336  
11.81, 0.4698  
11.8125, 0.4916  
11.815, 0.4795

11.8175, 0.5182  
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11.8225, 0.4868  
11.825, 0.4747  
11.8275, 0.5085  
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11.8325, 0.54  
11.835, 0.5545  
11.8375, 0.5134  
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11.845, 0.5158  
11.8475, 0.5109  
11.85, 0.5593  
11.8525, 0.54  
11.855, 0.5085  
11.8575, 0.4892  
11.86, 0.5424  
11.8625, 0.54  
11.865, 0.5303  
11.8675, 0.5013  
11.87, 0.552  
11.8725, 0.523  
11.875, 0.4674  
11.8775, 0.5569  
11.88, 0.5738  
11.8825, 0.5859  
11.885, 0.6101  
11.8875, 0.5859  
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11.8925, 0.569  
11.895, 0.5762  
11.8975, 0.5859  
11.9, 0.6052  
11.9025, 0.5956  
11.905, 0.5666  
11.9075, 0.54  
11.91, 0.5666  
11.9125, 0.5956  
11.915, 0.6028  
11.9175, 0.6415  
11.92, 0.6004  
11.9225, 0.5448  
11.925, 0.5786  
11.9275, 0.6101  
11.93, 0.5907  
11.9325, 0.6125  
11.935, 0.6488

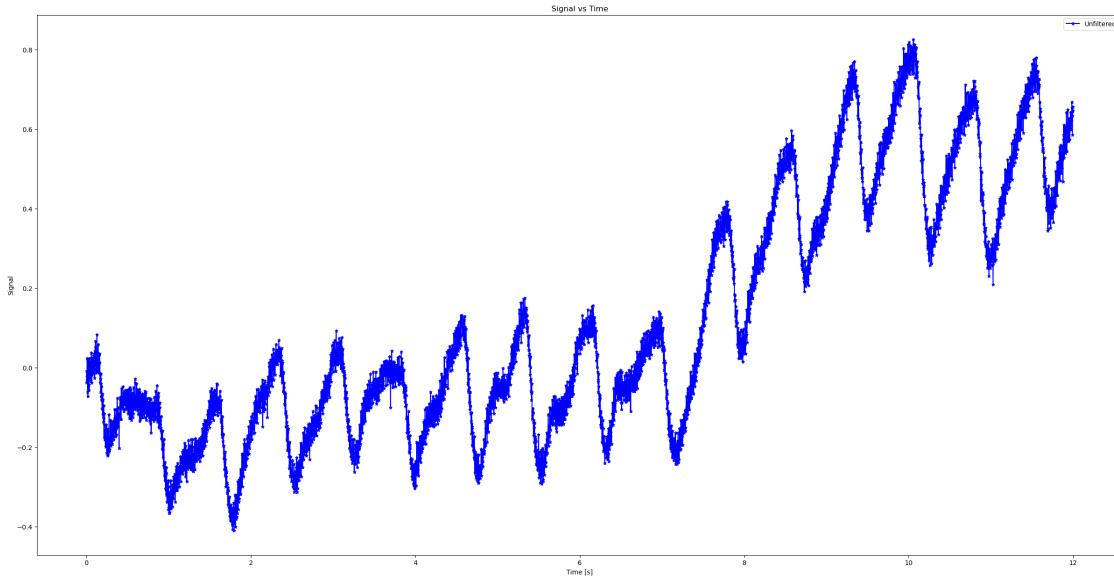
```
11.9375, 0.6052
11.94, 0.569
11.9425, 0.5714
11.945, 0.6125
11.9475, 0.6222
11.95, 0.627
11.9525, 0.6173
11.955, 0.6149
11.9575, 0.5738
11.96, 0.6125
11.9625, 0.627
11.965, 0.6125
11.9675, 0.6415
11.97, 0.6197
11.9725, 0.598
11.975, 0.6004
11.9775, 0.6294
11.98, 0.6222
11.9825, 0.6681
11.985, 0.6536
11.9875, 0.6343
11.99, 0.5859
11.9925, 0.6439
11.995, 0.656
11.9975, 0.6463
```

```
[318]: print(sample_rate)
```

```
400.0833506980621
```

```
[319]: plt.figure(figsize=(30, 15))
plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5)
plt.xlabel('Time [s]')
plt.ylabel('Signal')
plt.title('Signal vs Time')

plt.legend()
# plt.savefig("Line Trajectory.png")
plt.show()
```



## 5.1 MAF

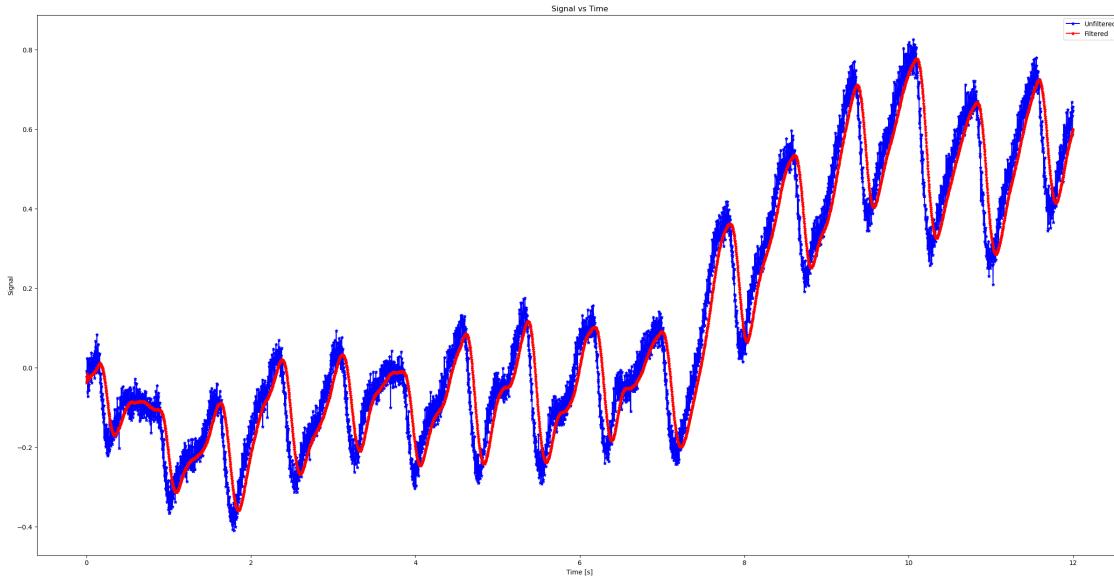
```
[320]: X = 50
filtered_data = MAF(data1, X, size_of_t)

plt.figure(figsize=(30, 15))
plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')

plt.xlabel('Time [s]')
plt.ylabel('Signal')
plt.title('Signal vs Time')

plt.legend()
plt.savefig("SigD MAF.png")
plt.show()
```

```
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/4183101125.py:5
: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/4183101125.py:6
: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')
```

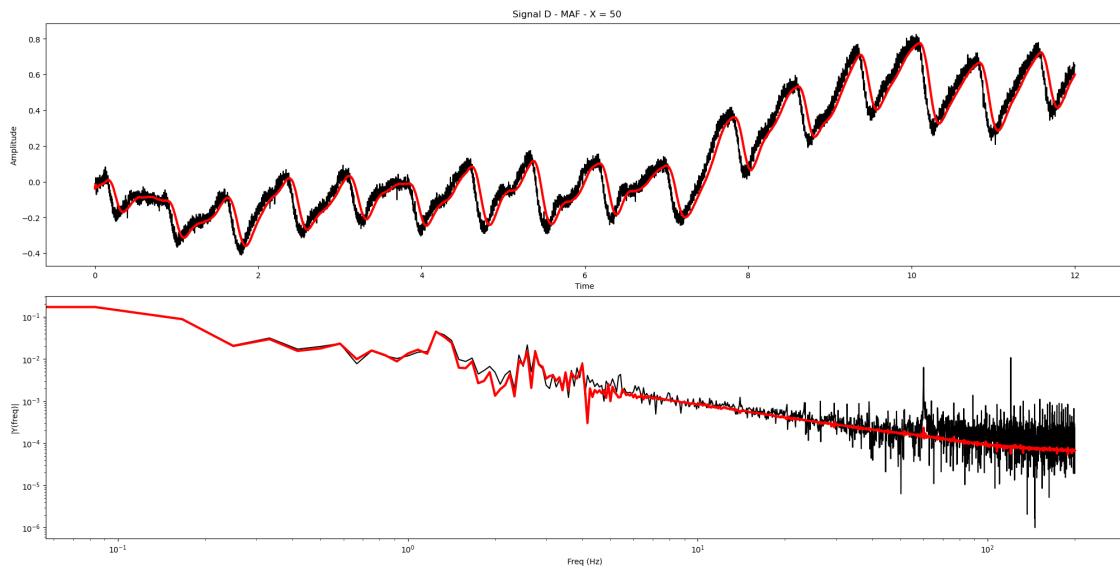


```
[321]: X = 50
fil = 1
filtered_data = MAF(data1, X, size_of_t)

FFT_grapher(t, data1, sample_rate, sig, filtered_data, fil, "X = 50")

/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy4000gn/T/ipykernel_41392/2018352675.py:1
9: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, y, 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy4000gn/T/ipykernel_41392/2018352675.py:2
0: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, z, 'b', label='Filtered', markersize=10, linewidth=3, color='red')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy4000gn/T/ipykernel_41392/2018352675.py:2
4: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax2.loglog(frq, abs(Y), 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black') # plotting the fft
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy4000gn/T/ipykernel_41392/2018352675.py:2
5: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax2.loglog(frq, abs(Z), 'b', label='Filtered', markersize=5, linewidth=3,
```

```
color='red') # plotting the fft
```



## 5.2 IIR Filter

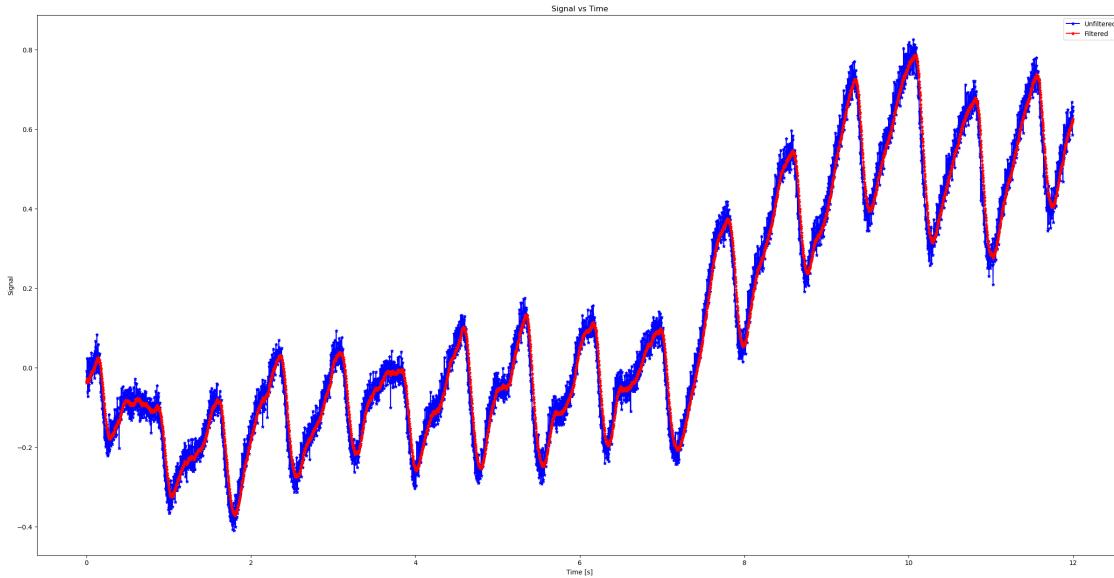
```
[322]: A = 0.9
B = 1 - A
filtered_data = IIR(data1, size_of_t, A, B)

plt.figure(figsize=(30, 15))
plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')

plt.xlabel('Time [s]')
plt.ylabel('Signal')
plt.title('Signal vs Time')

plt.legend()
plt.savefig("SigD IIR.png")
plt.show()
```

```
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/3260305172.py:6
: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/3260305172.py:7
: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')
```

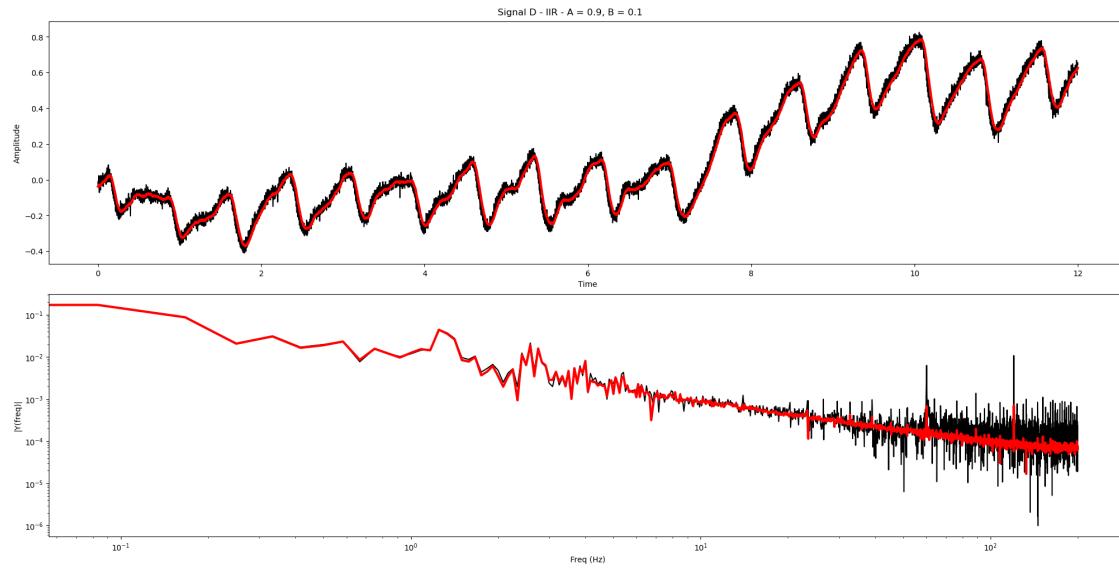


```
[323]: A = 0.9
B = 1 - A
fil = 2
filtered_data = IIR(data1, size_of_t, A, B)

FFT_grapher(t, data1, sample_rate, sig, filtered_data, fil, "A = 0.9, B = 0.1")
```

```
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:1
9: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, y, 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
0: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, z, 'b', label='Filtered', markersize=10, linewidth=3, color='red')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
4: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax2.loglog(frq, abs(Y), 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black') # plotting the fft
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
5: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
```

```
ax2.loglog(frq, abs(Z), 'b', label='Filtered', markersize=5, linewidth=3,
color='red') # plotting the fft
```



### 5.3 FIR Filter

[324]:

```
X = 57
sig_weights = [
    0.000525014322205170,
    0.000167626235436453,
    -0.000411622632657048,
    -0.001220098343478917,
    -0.002241153528847721,
    -0.003430333412406431,
    -0.004713530556522527,
    -0.005987521472324848,
    -0.007123144949706999,
    -0.007971168529157715,
    -0.008370653077693375,
    -0.008159386407038085,
    -0.007185737275867435,
    -0.005321102436923086,
    -0.002472000523149823,
    0.001409178100650168,
    0.006315718564726509,
    0.012181257356951018,
    0.018878219619570813,
    0.026220388286352300,
    0.033969669338565205,
```

```

0.041846792140578175,
0.049545366404118246,
0.056748435078619403,
0.063146440319958294,
0.068455377982943585,
0.072433868604720231,
0.074897925488734737,
0.075732350603287368,
0.074897925488734737,
0.072433868604720231,
0.068455377982943572,
0.063146440319958294,
0.056748435078619403,
0.049545366404118246,
0.041846792140578175,
0.033969669338565198,
0.026220388286352300,
0.018878219619570813,
0.012181257356951018,
0.006315718564726509,
0.001409178100650169,
-0.002472000523149823,
-0.005321102436923086,
-0.007185737275867435,
-0.008159386407038085,
-0.008370653077693375,
-0.007971168529157715,
-0.007123144949706999,
-0.005987521472324848,
-0.004713530556522526,
-0.003430333412406431,
-0.002241153528847721,
-0.001220098343478917,
-0.000411622632657048,
0.000167626235436453,
0.000525014322205170,
]
filtered_data = FIR(data1, sig_weights, X, size_of_t)

plt.figure(figsize=(30, 15))
plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')

plt.xlabel('Time [s]')
plt.ylabel('Signal')
plt.title('Signal vs Time')

```

```

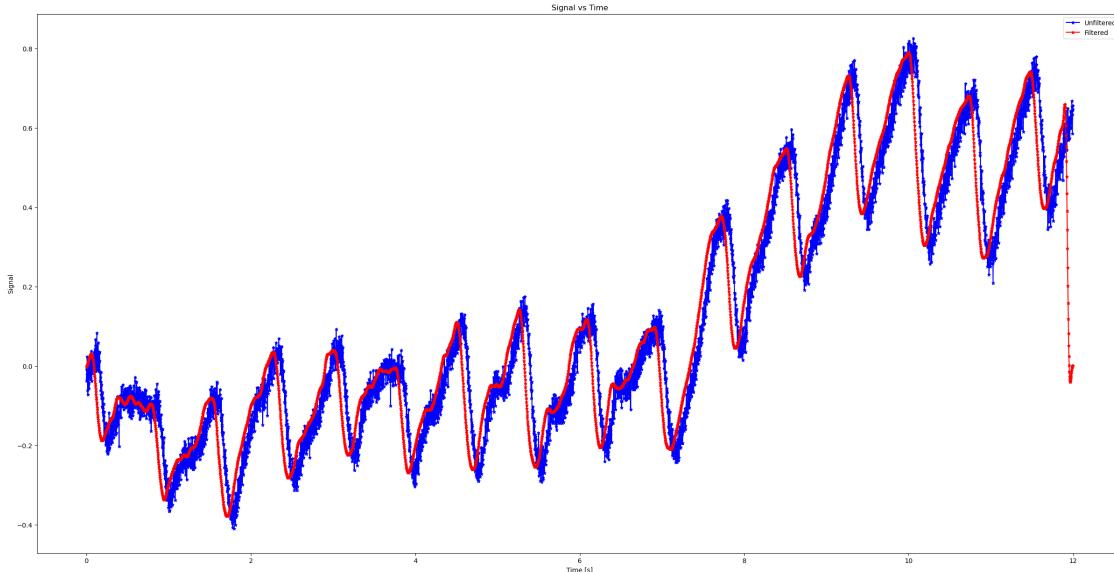
plt.legend()
plt.savefig("SigA FIR.png")
plt.show()

```

```

/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/1301983925.py:6
4: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,data1,'b-*', label='Unfiltered', markersize=5, color='blue')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/1301983925.py:6
5: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b-*" (-> color='b'). The keyword argument will take precedence.
    plt.plot(t,filtered_data,'b-*', label='Filtered', markersize=5, color='red')

```



[325]:

```

fil = 3
FFT_grapher(t, data1, sample_rate, sig, filtered_data, fil, "X = 57, Cutoff = 100, Freq = 15, Bandwidth = 16, Kaiser")

```

```

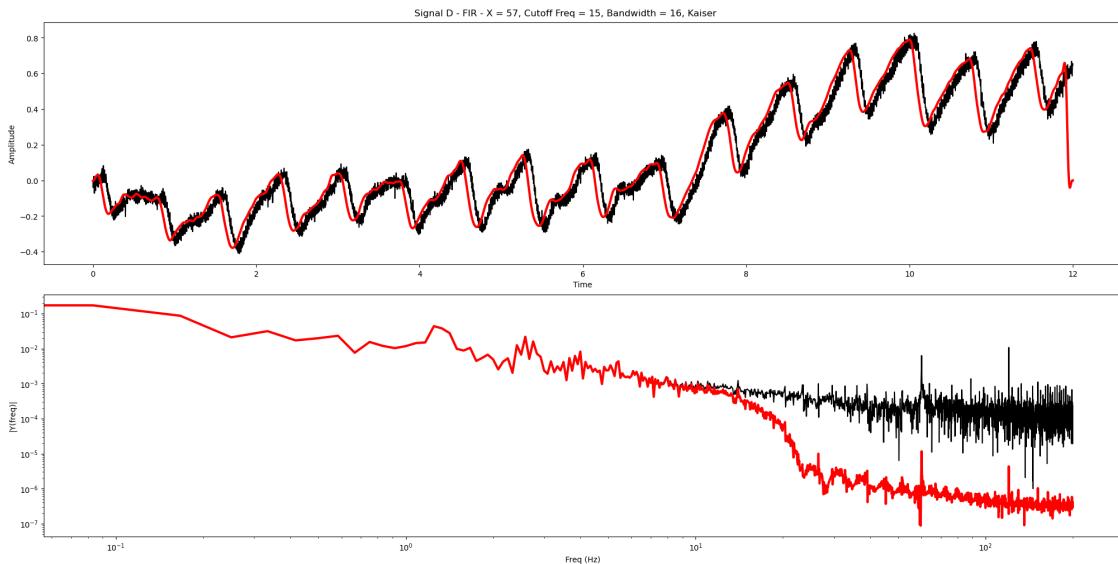
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:1
9: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, y, 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
0: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax1.plot(t, z, 'b', label='Filtered', markersize=10, linewidth=3, color='red')
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2

```

```

4: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax2.loglog(frq, abs(Y), 'b', label='Unfiltered', markersize=5, linewidth=1.5,
color='black') # plotting the fft
/var/folders/5b/hd0zz73j0sb7hs24b2tg1yy40000gn/T/ipykernel_41392/2018352675.py:2
5: UserWarning: color is redundantly defined by the 'color' keyword argument and
the fmt string "b" (-> color=(0.0, 0.0, 1.0, 1)). The keyword argument will take
precedence.
    ax2.loglog(frq, abs(Z), 'b', label='Filtered', markersize=5, linewidth=3,
color='red') # plotting the fft

```



## 6 Sample

```

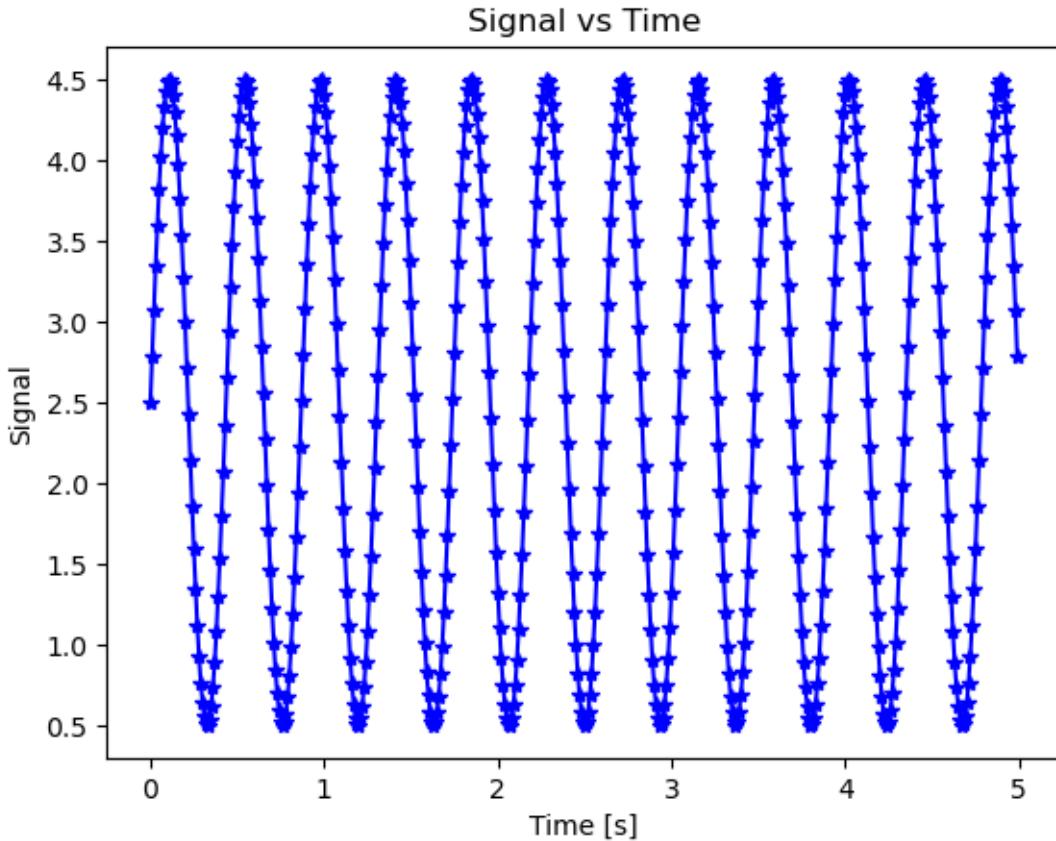
[9]: import matplotlib.pyplot as plt # for plotting
import numpy as np # for sine function

dt = 1.0/100.0 # 100Hz
t = np.arange(0.0, 5.0, dt) # for 5s

s = 2.0 * np.sin(2 * np.pi * 2.3 * t) + 2.5 # 2.3Hz

plt.plot(t,s,'b-*')
plt.xlabel('Time [s]')
plt.ylabel('Signal')
plt.title('Signal vs Time')
plt.show()

```

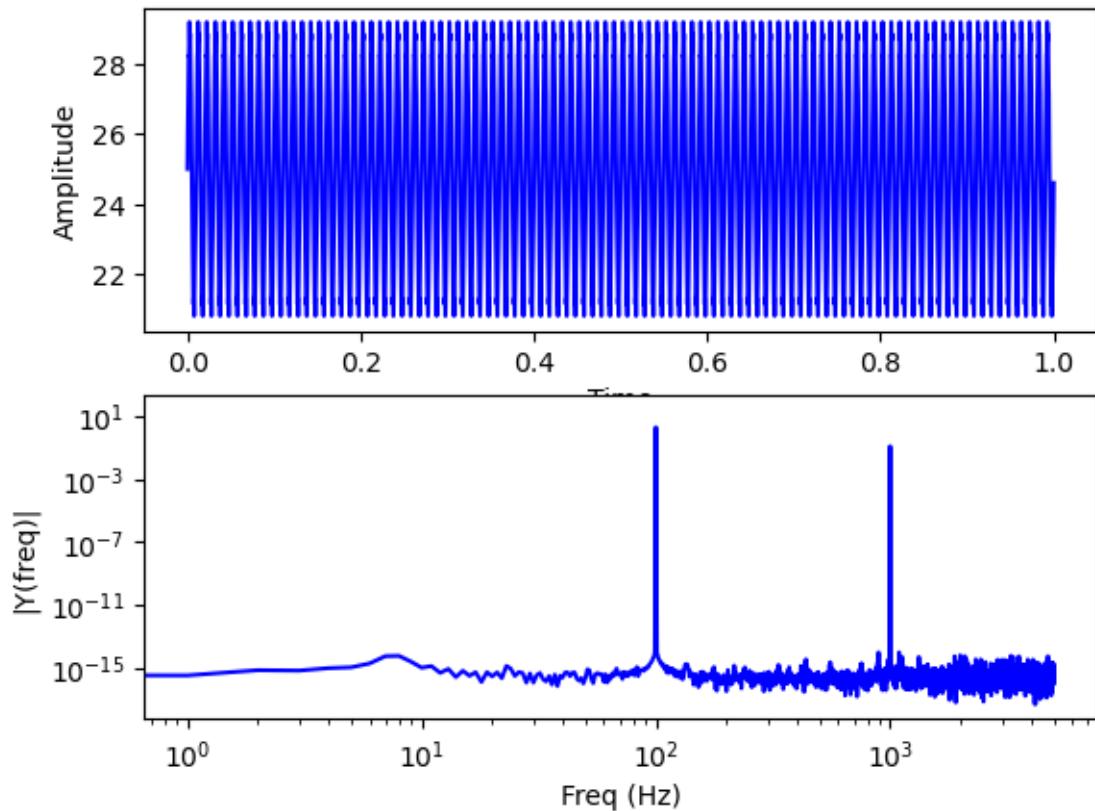


```
[53]: import matplotlib.pyplot as plt
import numpy as np

dt = 1.0/10000.0 # 10kHz
t = np.arange(0.0, 1.0, dt) # 10s
# a constant plus 100Hz and 1000Hz
s = 4.0 * np.sin(2 * np.pi * 100 * t) + 0.25 * np.sin(2 * np.pi * 1000 * t) + 25

Fs = 10000 # sample rate
Ts = 1.0/Fs; # sampling interval
ts = np.arange(0,t[-1],Ts) # time vector
y = s # the data to make the fft from
n = len(y) # length of the signal
k = np.arange(n)
T = n/Fs
frq = k/T # two sides frequency range
frq = frq[range(int(n/2))] # one side frequency range
Y = np.fft.fft(y)/n # fft computing and normalization
Y = Y[range(int(n/2))]
```

```
fig, (ax1, ax2) = plt.subplots(2, 1)
ax1.plot(t,y,'b')
ax1.set_xlabel('Time')
ax1.set_ylabel('Amplitude')
ax2.loglog(frq,abs(Y),'b') # plotting the fft
ax2.set_xlabel('Freq (Hz)')
ax2.set_ylabel('|Y(freq)|')
plt.show()
```



[ ]: