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2ECE-A

**Problem 1 Python:**

**Code:**

import matplotlib.pyplot as plt

import numpy as np

f=np.arange(0,100)

for n in range(0,100):

if f[n]<=9:

f[n]=(f[n]\*\*2)-7

elif f[n]>=10:

f[n]=f[n-10]

plt.stem(f,use\_line\_collection=True)

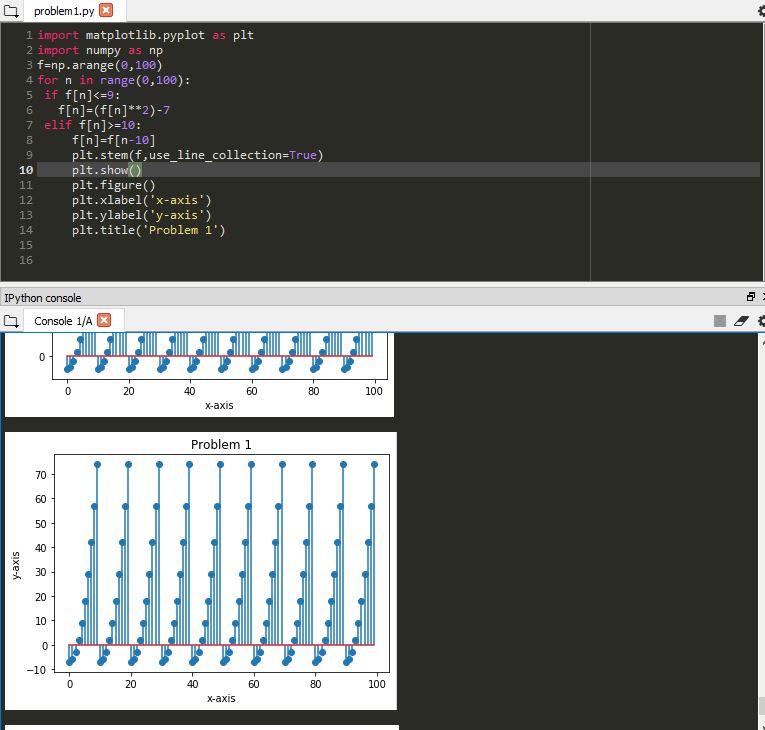
plt.show()

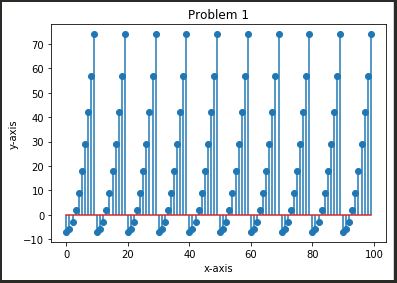
plt.figure()

plt.xlabel('x-axis')

plt.ylabel('y-axis')

plt.title('Problem 1')





Description:

The Python program displayed a periodical and repeating graph. The command stem will display ‘F’ along the x-axis that scale from the range of F with the following conditions of f(n) is less than or than 9 and f(n) is greater or equal to 10.