**Example 1:**

**Code:**

clear

clc

syms w

n = 0:20;

x = 0.8.^n;

X = sum(x.\*exp(-j\*w\*n));

ezplot(abs(X),[-pi pi])

title('Magnitude of DTFT')

ylim([0 5.4])

**Result:**

**Graphical user interface, histogram

Description automatically generated**

**Code:**

clear

clc

pkg load symbolic

syms w

n = 0:20;

x = 0.8.^n;

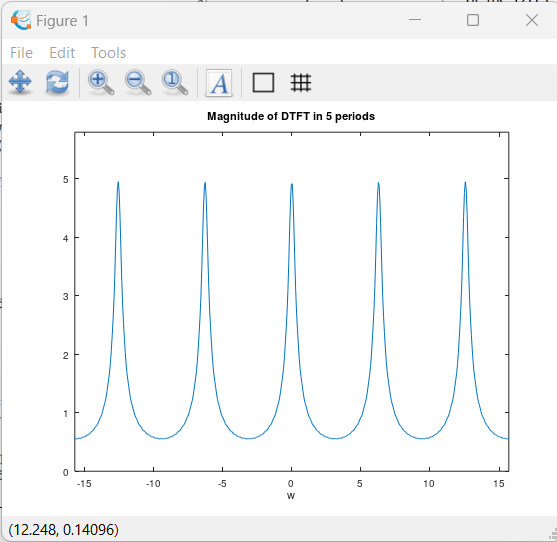
X=sum(x.\*exp(-j\*w\*n));

ezplot(abs(X),[-5\*pi 5\*pi]);

title('Magnitude of DTFT in 5 periods')

ylim([0 5.8])

**Result:**

****

**Example 2:**

**Code:**

**Result:**