

Don Bosco Institute of Technology, Mumbai

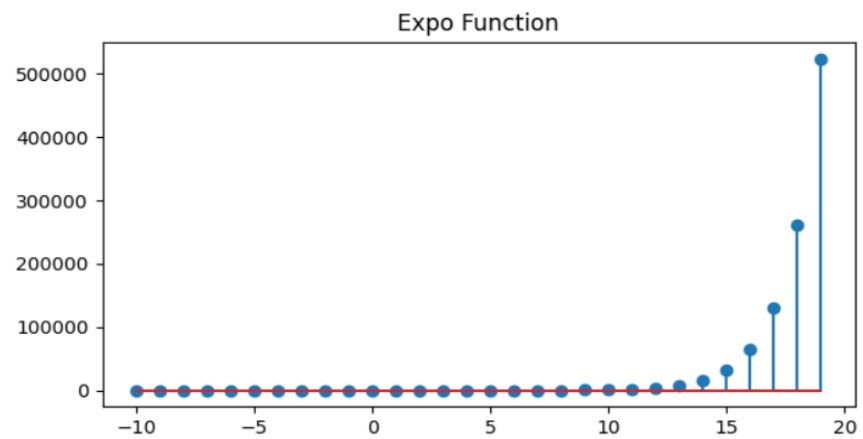
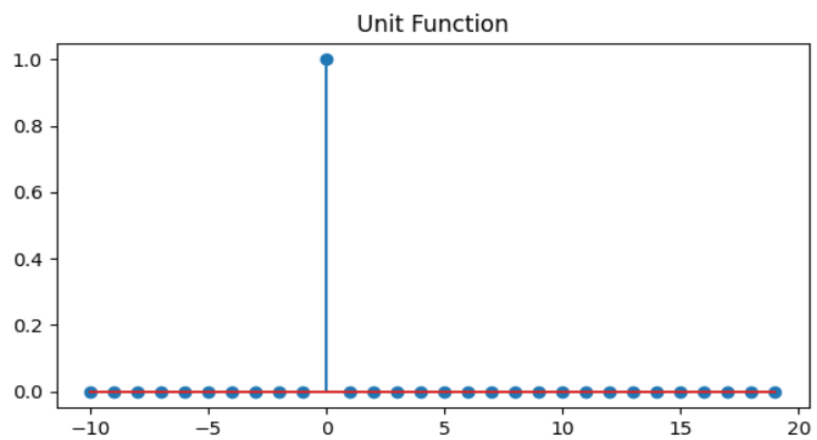
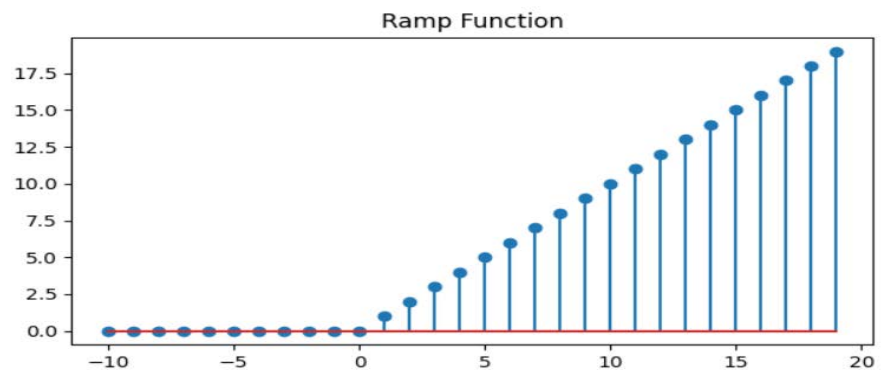
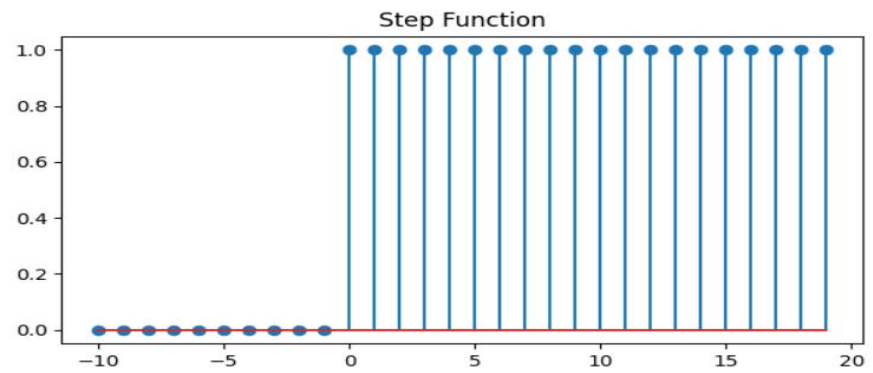
Digital Signal and Image Processing

Experiment 1

Name: Hayden Cordeiro Class: BE Comps Roll No: 05

Title	Generation of Signals
Program	<pre>import matplotlib.pyplot as plt figure, axis = plt.subplots(2, 2) figure.set_size_inches(18.5, 10.5) # impulse x1=[i for i in range(-10,10)] y1=[0 if i!=0 else 1 for i in x1] # step x2=[i for i in range(-10,10)] y2=[0 if i<0 else 1 for i in x2] # expo x3=[i for i in range(-10,10)] y3=[0 if i<0 else pow(2,i) for i in x3] # ramp x4=[i for i in range(-10,10)] y4=[0 if i<0 else i for i in x4] axis[0, 0].stem(x1, y1) axis[0, 0].set_title("Unit Function") axis[0, 1].stem(x2, y2) axis[0, 1].set_title("Step Function") axis[1, 0].stem(x3, y3) axis[1, 0].set_title("Expo Function") axis[1, 1].stem(x4, y4) axis[1, 1].set_title("Ramp Function") plt.show()</pre>

Output



Outcome	A python program was developed to generate singals
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