Don Bosco Institute of Technology, Mumbai

Digital Signal and Image Processing  
  
Experiment 1

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| **Title** | Generation of Signals |
| **Program** | 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() |
| **Output** |  |
| **Outcome** | A python program was developed to generate singals |