Write Python code for the generation of sequences for Sinusoidal, Exponential, Impulse function, Unit Step function, and Ramp function. (Note: Continuous and Discrete time sequence to be plotted for all signals)

Specification are as follows

a) Sinusoidal: (i) 325sin(100πt) for -.02≤ t ≤ 0.05 with 1000 samples ; (ii) 325sin(100πn) for 0 ≤ n ≤ 50 ;

b) Exponential: (i) exp(j100πt) for -.02≤ t ≤ 0.05 with 1000 samples, plot real and imaginary parts;

(ii) (2^n) for -10 ≤ n ≤ 10;

c) Unit step ; unit impulse and ramp functions to be generated for 0 ≤ n ≤ 9;