b. Square DT signal

clc; clear all; close all; N = input('Enter the number of Samples:'); n = 0:0.1:N; s = square(2*n); stem (n,s); xlabel ('time'); ylabel ('amplitude'); title ('square wave') grid on;

This code asks the user to input the number of samples (**N**), creates a time vector (**n**) from 0 to **N** with a step size of 0.1, generates a square wave (**s**) using the **square()** function with a frequency of 2, and finally plots the square wave using **stem()**. Labels and titles are added to the plot for clarity, and the grid is turned on to assist with visualization.