1. With *x, z,* and *y* as assigned below:
   x = np.linspace(0, 2*np.pi, 200)
   y = np.cos(x)
   z = np.sin(x)
   Draw two plots using plt.subplot(). First with *y* against *x* and second with *z* against *x*.
   Set at least 5 different parameters and view the results.

2. Use functional method of matplotlib to show *y* against *x* (*x* and *y* are given in previous question).

3. With details of Home and Living shop, plot a bar plot with given data and set at least 5 different parameters including edge color and line width for it. Set seed value to 10 for random number generation.
   x = ['Flooring', 'Lamp and Lighting', 'Home Decor', 'bed Linen']
   units_sold = np.random.randint(2, 50, len(x))

4. For the details given in previous question, double the size of the plot in both *x* and *y* direction. Also, share same y-axis for another bar graph of units_purchased (z) against *x*. units_purchased = np.random.randint(2, 100, len(x)) with same seed of 10. Visualize the results.

5. For given data, draw the scatter plot. Try assigning parameter values which are other than the one taken during sessions.
   x2 = [26, 29, 48, 64, 6, 5, 36, 66, 72, 40]

   y2 = [26, 34, 90, 33, 38, 20, 56, 2, 47, 15]