1.

Create a list of 20 numeric values, then:

- Create a plot.
- Add a y-axis label.
- Add a title.
- Show the plot.
- Save the plot image.

2.

Create a Python program with two lists, one containing the names of six students and the other containing the heights of six students in metres.

Create a plot, with red squares (not the default blue line) with the heights on the y-axis and the names on the x-axis. Add a title and show the plot.

3.

Repeat Question 2 but change the plot type to a bar graph

4.

Given the following data set, create three lists in Python, one for each column. Then produce a graph with two plots. Names should be on the x-axis and age and earnings on the y-axis.

Name	Age	Earnings in millions of €
Lionel Messi	32	127
Steph Curry	31	79
Conor McGregor	30	47
Serena Williams	37	18
Danica Patrick	37	7.5
Katie Taylor	33	1.1

5.

The information below comes from Insure4sport, a UK specialist sports insurance company.

Sport	Average prize money for men in millions of £	Average prize money for women in millions of £
Football	22	0.6
Cricket	3.1	0.5
Golf	1	0.5
Tennis	1.5	1.5

Source: insure4sport.co.uk

Create three lists, one for the names of the sports, and one each for the average prize money for men and women in these sports. Calculate the gap in average prize money between men and women and store this data in another list.

Using the names of the sports as the x-axis labels, plot on the same graph the y-axis values for average prize money for men, average prize money for women and the prize gap. Use a legend. Comment on the information shown in the graph.

Create a bar chart and a pie chart to illustrate the gap in earnings between men and women in these four sports. Comment on which visualisation technique you find more effective.