**Assignment\_23**

Q1. If you have any, what are your choices for increasing the comparison between different figures on the same graph?

**Ans: Line graphs can also be used to compare changes over the same period of time for more than one group.**

Q2. Can you explain the benefit of compound interest over a higher rate of interest that does not compound after reading this chapter?

**Ans: Compound interest causes your wealth to grow faster. It makes a sum of money grow at a faster rate than simple interest because you will earn returns on the money we invest as well as on returns at the end of every compounding period.**

Q3. What is a histogram, exactly? Name a numpy method for creating such a graph.

**Ans: A histogram represents the distribution of a numeric variable for one or several groups. .histogram() method is used for creating such a graph.**

Q4. If necessary, how do you change the aspect ratios between the X and Y axes?

**Ans: You can change the aspect ratio using daspect function.**

Q5. Compare and contrast the three types of array multiplication between two numpy arrays: dot product, outer product, and regular multiplication of two numpy arrays

Q6. Before you buy a home, which numpy function will you use to measure your monthly mortgage payment?

**Ans: pmt(rate,nper , pv) where: rate = The periodic (monthly) interest rate.**

Q7. Can string data be stored in numpy arrays? If so, list at least one restriction that applies to this data.

**Ans: The elements of a NumPy array, or simply an array, are usually numbers, but can also be boolians, strings or other objects.**