Python advance assignment 21:

Q1) probability distribution shows possible values and their likelihoods. We can predict by searching for patterns in values and likelihoods.

Q2) yes, there is difference. True random numbers is an ideal abstract concept which is complex and difficult to achieve practically. For all practical purposes, pseudo random numbers are enough.

Q3) mean and standard deviation

Q4) rolling a dice

Q5) in short term, the distribution might not show clear patterns and may appear to be random or skewed. As number of trials grow, a clear pattern emerges which gets reinforced and further corrected with more trials.

Q6) lists can be shuffled, the items in its get shuffled.

Q7) number theoretic and representation functions

power and logarithmic

angular

trigonometric

hyperbolic

constants

special

etc

Q8) logarithms are inverse of exponentials

Q9) logs to the base 10, 2 and custom base.