Python advance assignment 22:

Q1) builtin array has no separate advantages. It has functions of regular array like getting type, size, number of occurrences, numerical operations, appending, array to list etc.

Q2) array package has limitations of storing only homogenous data, difficulties in replacements and modifications etc.

Q3) array package focuses on arrays while bumpy focuses on numerical operations.

Q4) empty() creates uninitialised array, zero() creates ndarray initialised with 0 values and ones() creates ndarray initialised with 1 values.

Q5) callable represents the coordinates of array changing along specific axis.

Q6) the scalar is added to every element of the array.

Q8) yes, numpy contains fixed length strings. If longer string is allocated, only limited portion of the string according to fixed length is taken.

Q9) respective elements in array are added or multiplied. Shapes of arrays should be same to combine them.

Q10) numpy.ma.masked\_where(condition, array)

numpy.ma.getmask(array)

numpy.ma.masked\_array(array, mask=)

Q11) statistics.stdev(), numpy.std(), dataframe.std()

Q12) 1 dimension