**Amit Task**

**Third argument in tesnordot():**

Axes is the third argument in the tensordot function and it can take 4 things:

1. 0 which means the outer product
2. 1 which means the dot product
3. 2 which is the default and means tensor double contraction
4. (n,m) which means that it could take a list

**Axes=0:**

Axes = 0 means that you give the function a list of lists and a matrix and then it takes them and multiplies the matrix with each element in every list.

**Axes = 1:**

Axes = 1 means that each column of the matrix is multiplied by each row in the lists.

**Axes =2:**

Axes = 2 which is the default and it takes the matrix and multiplies it by the whole list.

**Difference between tensor product and tensor dot product:**

Tensor product is the same as getting the outer product which multiplies each element of the array with the matrix.

Tensor dot product could be given different axes which does different arithmetic functions.