Question 1,2 are writing codes and makes plots are in the directory

Question 3:

1.At n=16 threads some times there is no significant speed ups but higher speed ups can be seen at when threads =16 and when compared with chunks threads has optimal speed ups because there is very less overhead in threads when compared with chunks.

Question 4:

. when n is increasing the speed ups are increasing in threads for smaller values of n there is no speed ups I believe this is similar to the weak scaling experiment which defines that if we can increase the volume of the computation we can achieve speed ups.