1. creates a plot of the program execution times vs the filesize
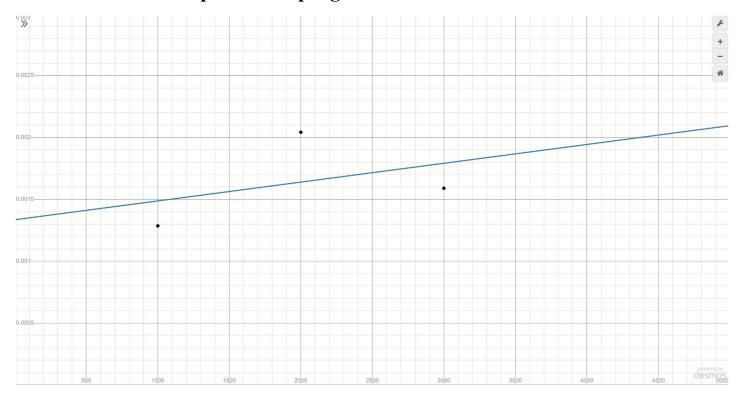

Size	Times (s)
1 megabyte	0.00128562
2 megabytes	0.00204205
3 megabytes	0.0015895

2. explains the reason behind this trend.

This trend exists because as the file size increases the amount of time needed to transfer file increases linearly. As for larger files more chunks are broken off and transferred together.