ECE573 – Internet Protocols

Project II

**TASK 1:**

**Effect of number of receivers**

For 5 receivers, these graphs represent the average time it has taken for each datagram as seen by each of the receiver.

For 4 receivers, these graphs represent the average time it has taken for each datagram as seen by each of the receiver.

For 3 receivers, these graphs represent the average time it has taken for each datagram as seen by each of the receiver.

For 2 receivers, these graphs represent the average time it has taken for each datagram as seen by each of the receiver.

For 1 receiver, these graphs represent the average time it has taken for each datagram as seen by each of the receiver.

The average delay over the five transmissions for receivers(1 to 5) is represented in the following graph:

(X-Axis – Number of receivers, Y-Axis – Average Delay)

**TASK 2:**

**Effect of MSS**

|  |  |  |
| --- | --- | --- |
| **MSS** | **Avg.delay (min)** | **Avg.delay(s)** |
| 100 | 47.95788 | 3528.955 |
| 200 | 36.8554 | 2877.473 |
| 300 | 27.57725 | 1654.635 |
| 400 | 22.21696667 | 1333.018 |
| 500 | 20.63536667 | 1238.122 |
| 600 | 18.34298333 | 1100.579 |
| 700 | 16.17416333 | 970.4498 |
| 800 | 13.96971667 | 838.183 |
| 900 | 8.319233333 | 499.154 |
| 1000 | 6.681483333 | 400.889 |

The average delay over the five transmissions for MSS(100 to 1000) is represented in the following graph:

(X-Axis – MSS, Y-Axis – Average Delay)

**TASK 3:**

**Effect of drop-probability**

**A screenshot of a cell phone

Description automatically generated**

The average delay over the five transmissions for probability drop(0.01 to 0.1) is represented in the following graph:

(X-Axis – probability, Y-Axis – Average Delay)

A close up of a map

Description automatically generated