**Capstone Project Hypothesis**:

**1.Download & Upload speeds depends upon/related to values of ping & jitter.**

The hypothesis is Download & Upload speed are inversely proportional to Ping & Jitter.

**2. Broadband Quality parameters such as Download & Upload speeds,Ping & Jitter depends upon/related to Weather  conditions .**

(a)The hypothesis is Broadband Quality parameters such as Download & Upload speeds are inversely proportional to Inclement Weather .

(b) The hypothesis is Broadband Quality parameters such as Ping & Jitter are directly proportional to Inclement Weather .

**3. Broadband Quality parameters such as Download & Upload speeds,Ping & Jitter depends upon/related to technology being used for data delivery(Fibre optics/Coaxial Cables/Cellular) .**

(a)The hypothesis is Broadband Quality parameters such as Download & Upload speeds are directly proportional to technology being used for data delivery.

(b) The hypothesis is Broadband Quality parameters such as Ping & Jitter are inversely proportional to technology being used for data delivery.

**4. Broadband Quality parameters such as Download & Upload speeds,Ping & Jitter depends upon/related to Number of Users & Number/Types of Applications being used.**

(a)The hypothesis is Broadband Quality parameters such as Download & Upload speeds are inversely proportional to Number of Users & Number/Types of Applications being used..

(b) The hypothesis is Broadband Quality parameters such as Ping & Jitter are directly proportional to Number of Users & Number/Types of Applications being used.

**5. Broadband Quality parameters such as Download & Upload speeds,Ping & Jitter depends upon/related to Time of Day (Peak usage time) and Day of the week(Peak usage Day).**

(a)The hypothesis is Broadband Quality parameters such as Download & Upload speeds are Inversely proportional to Peak Time of Day and Peak usage Day of the week

(b) The hypothesis is Broadband Quality parameters such as Ping & Jitter are directly proportional to Peak Time of Day and Peak usage Day of the week

6. **Broadband Quality parameters such as Download & Upload speeds,Ping & Jitter depends upon/related to ISP’s/Carriers.**

The hypothesis is Broadband Quality parameters such as Download & Upload speeds, Ping & Jitter are different for various ISP’s under same conditions depending upon equipments and technology used by them.