**MBD Coarse Milestone Week 3 Project 3**

Name: Mihika Malgi

Unique ID: 2005119

**Gear Box system in Automotive vehicles.**

The **gearbox** is the second stage in the **transmission** system, after the clutch. It is usually bolted to the rear of the engine, with the clutch between them. Modern **cars** with manual transmissions have four or five forward speeds and one reverse, as well as a neutral position.

The gear box is used to maintain car speed using change in gear.

There are basically five gears and one reverse gear in the gear box system.

1. First Gear-Speed should be less than 20 kmph.
2. Second Gear-Speed >=40
3. Third Gear – Speed >=60kmph
4. Forth Gear- Speed >=80kmph
5. Fifth Gear – Speed >=100kmph
6. Reverse Gear- Always on first gear with speed less than 10kmph.

Data Inspector:

To visualise the waveforms of speed and gear change using data inspector.