Practical Logbook-

Week 1:

- Attended Class
- Participated in group of 4 to complete introductory task
- Brainstorming human activity recognition
- Car camera monitoring pedestrians
- Car operating system
- Making use of infrared and cameras to monitor road conditions and inform the driver
- Difficulties encountered deciding the application of the technology into cars
- Group Brainstorming led to key decisions to our final product
- Overall the practical session was effective in brainstorming potential human activity technology
- Group: Jamie, Indigo, Edward, Ramy, Eleazar

Week 2:

- Attended class
- Joined the group to summarize last weeks practical session
- Group collaborated to identify key requirements and constraints
- Developed key questions surrounding the proposed system decided by our group
- Identified the requirements and constraints of the proposed system including key functions and factors that prevent the use of the system
- Conducted the analysis phase
- Followed the design phase
- Discussed both the hardware and software requirements
- Considered machine learning for our system, we will collect data and upload it to a cloud database for our entire operating system to make use of
- Figured out how our system will make use of the hardware and software
- Carried out a brief design of what the system's architecture will involve
- Decided that the spiral model was the most appropriate for our proposed system as it is heavily risk driven
- In summary the group successfully completed the analysis, design and process models for our proposed system

Week 3:

- Attended class
- Collaborated with group members
- Began the lab work
- Set up a team trello board
- Became familiar with trello and began delegating tasks

- Added each list so we could organise or workflow
- Within each list we added cards to describe each task to delegate
- Assigned the tasks to each team member
- Created the lucid board and created a sample flow chart
- I was the team leader, members completed assigned tasks where I would review and provide feedback
- Team members completed assigned tasks and shared with team leader to review the work and either accept or reject
- Summarized and reflected on the task, discussed the process
- We believed that task 6 should of been completed first as it was to create the flowboard, task 1 was to add arrows, it would make better sense if task 6 was the first
- We had to reject a few tasks in order to ensure the it was done correctly

Week 4:

- Attended class
- Installed git and activate my account through the terminal window
- Configured git to sync my account to it
- Created a git repository and initialized
- Cloned the repository to a directory
- Reflection, the task was challenging overall and insightful, I learned the basics of git and have built a base knowledge of how to use it in the future
- Installed anaconda and launched anaconda
- Following that launched jupiter notebook to complete the group tasks
- Executed the codes in section 1 to find out the meaning of each column in the returned table
- The meaning of the columns is to display the data
- Task 2, highlighting the overall consistency of sensor visualisation on the 3 recorded levels therefore establishing the low precision displayed

Week 5:

- Attended class
- Created the group google drive folder and assigned tasks to the rest of the group
- Indigo created the private git repository and shared with the rest of the group
- Had Edward create the team a trello board for the group project
- Following successful completion, of the assigned tasks our team cloned the repo the local terminal
- As the group leader I downloaded the task files from ilearn and added them the repository for the team to access, at first I couldn’t push the files to the github but eventually we problem solved and worked it out

- I then opened Jupyter notebook and navigated to the project repository and opened the HAR-week5 file
- We then completed the activities together and answered the questions in the cell
- We found the questions challenging and engaging and gather a better understanding of our tasks
- Following we pushed the file show that everyone in the team could access

Week 6

- Attended class
- Gathered the group together to complete the week 6 practical class
- Downloaded Har-week6 file as well as the other data set files
- Cloned the files into repository and pushed it to github for the rest of the group to pull to their own personal folders
- Created a new trello board
- Allocated tasks to each of the members to complete the har challenge task
- Equally distributed the problems amongst the group
- Launched jupyter notepad to answer the questions
- Worked through the tasks on the practical activity and completed the challenges in jupyter