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| **Course: Engineering Notebook - Daily** | |
| **Engineer: N. Harshitha** | **Date:** 15-03-2019 and 16-03-2019 |

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| **Notes: (Record key insights from videos, web pages, readings, discussions, experiments, and project tasks.)** |

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| **Activity: services, running services in background, Intent services, adding an Intent service** | **Start: 10:00 am** | **Stop: 12:30 pm** |
| Service is not a separate process or a separate thread. It runs in the same process as the application it is part of. Service can be called by the application directly even though the user does not directly interact with application. The service is called and runs until a service or some other explicitly stop it. In order to expose the functionality of an application to another application we can use services.  In sunshine application we use background service for downloading data immediately when location changes, JobService for downloading up to date weather data.  IntentService is a base class for services that handle asynchronous requests on demand. IntentService will receive the Intents, launch a worker thread, and stop the service as appropriate. | | |

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| **Activity: Notifications, Notification actions, scheduling jobs, Adding job service, Foreground services.** | **Start** | **Stop:** |
| When the app is not in use, notifications provide some information about the events happening in the app.  NotificationCompat API from Android support library. There can be priority set to the notifications.  JobScheduler is used to schedule a job with some deadlines, if we do not use these job schedulers, If we don’t specify the deadlines for the jobs they may run at any moment depending on the queue.  Foreground services are used when we need to run and execute the service immediately. These can be used when the application must run without killing. | | |

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| **Activity: Improvising the UI by changing the colors and layouts of the sunshine application.** | **Start: 7:00 pm** | **Stop: 10:00 pm** |
| I developed the UI of the sunshine application by changing some of the layouts and adding colors to the list of items displayed in the application.  Colors, fonts and dimensions of the application are improvised I took care of the layout resources for different screens. | | |

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| **Deliverable Status** |
| **Deliverables : Module link of the github** |
| Link:[https://github.com/harshithaRao5/20186085-MobileProgramming/tree/master/Module%205](mailto:https://github.com/harshithaRao5/20186085-MobileProgramming/tree/master/Module%205)  The link is the evidence for the work done by me on the enhancements done on Sunshine application. |