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| **Course: Engineering Notebook - Daily** | |
| **Engineer:** | **Date:** |

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

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| **Activity:** | **Start:** | **Stop:** |
| **Services:**  A Service is an application component that can perform long-running operations in the background, and it doesn't provide a user interface. Another application component can start a service, and it continues to run in the background even if the user switches to another application. Additionally, a component can bind to a service to interact with it and even perform interprocess communication (IPC).  There are three different types of services:   * **Foreground:**   A foreground service performs some operation that is noticeable to the user. For example, an audio app would use a foreground service to play an audio track. Foreground services must display a Notification. Foreground services continue running even when the user isn't interacting with the app.   * **Background**   A background service performs an operation that isn't directly noticed by the user. For example, if an app used a service to compact its storage, that would usually be a background service.   * **Bound**   A service is bound when an application component binds to it by calling bindService(). A bound service offers a client-server interface that allows components to interact with the service, send requests, receive results, and even do so across processes with interprocess communication (IPC). A bound service runs only as long as another application component is bound to it. Multiple components can bind to the service at once, but when all of them unbind, the service is destroyed.  There are three ways of starting a service. One is we can start a service, we can schedule a service and we can bind a service.Start a service is way , it starts the service but will not communicate back to the activity that started this service.  **Pending Intents:**  A PendingIntent is a token that you give to a foreign application (e.g. NotificationManager, AlarmManager, Home Screen AppWidgetManager, or other 3rd party applications), which allows the foreign application to use your application's permissions to execute a predefined piece of code. If you give the foreign application an Intent, it will execute your Intent with its own permissions. But if you give the foreign application a PendingIntent, that application will execute your Intent using your application's permission.  Notifications having buttons to handle actions is started from jellybean version of android. This will make user to handle the functionality form the notification itself instead of going to app every time. For example whatsapp recently have the mark as read button in the notification of the message in the notification bar. It was made easy to mark the message from the notification bar itself.   * App priority is of four levels, critical, high, medium and low. Critical apps are those which are active. | | |

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| **Deliverable Status** |
| **Deliverables : Module link of the github** |
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