**Software Engineering Tools Lab**

**Assignment No-2**

(Module 2- Software Development Frameworks)

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1. List of Frameworks/IDEs/Softwares
2. **Eclipse**
3. **Android SDK**
4. **Node.Js**
5. **DotNet**
6. **Ruby on Rails**
7. **Anaconda**
8. **Google colab**

For every Frameworks/IDEs/Softwares given above provide the answers for below questions

**Android SDK**

1. **Original author -** [Andy Rubin](https://en.wikipedia.org/wiki/Andy_Rubin), [Rich Miner](https://en.wikipedia.org/wiki/Rich_Miner), Nick Sears, and Chris White
2. **Developers -** Google, JetBrains
3. **Initial release -** September 23, 2008
4. **Stable release -** [Android 12](https://en.wikipedia.org/wiki/Android_12) / October 4, 2021
5. **Preview release -** Android 13 developer previews throughout February 2022 and March 2022. It'll move to beta releases around April 2022.
6. **Repository (with cloud support )**

https://developer.android.com/studio

1. **Written in (Languages) –** Java
2. **Operating System support -** OS X, Linux or Windows
3. **Platform ,portability -** There's one SDK Platform available for each version of Android. It includes an android.jar file with a fully compliant Android library. In order to build an Android app, you must specify an SDK platform as your build target.
4. **Available in (Total languages) -** Kotlin, Java, and C++
5. **List of languages supported -**
6. **Type (Programming tool, integrated development environment etc.)**
7. **Website -** <https://developer.android.com/>
8. **Features-** Beautiful UI, Connectivity, Storage, Media support, Messaging, Web Browser, Multi-touch, Multi-tasking, Resizable widgets, Multi-Language
9. **Size (in MB, GB etc.) –** 872 Mb
10. **Privacy and Security -** Android is private by design. As the Android platform evolves, it continues to provide tools and guidance to help developers design apps that minimize the amount of data that is used and give users control and transparency so that users can stay informed and decide what data to share.
11. **Type of software (Open source/License) –** Open Source
12. **If License- Provide details.**
13. **Latest version -** Android Studio Bumblebee | 2021.1.1
14. **Cloud support** - No
15. **Applicability**
16. **Drawbacks (if any)**
17. Implement linear regression problem using Google colab (Perform preprocessing, training and testing)

Dataset 1 -https://www.kaggle.com/spittman1248/cdc-data-nutrition-physical-activity-obesity

Dataset 2- <https://archive.ics.uci.edu/ml/datasets/Air+Quality>

Dataset 3- <https://archive.ics.uci.edu/ml/datasets/Appliances+energy+prediction>

Dataset 4- <https://archive.ics.uci.edu/ml/datasets/Bike+Sharing+Dataset>

Dataset 5- <https://archive.ics.uci.edu/ml/datasets/Demand+Forecasting+for+a+store>

Dataset 6- <https://archive.ics.uci.edu/ml/datasets/Hungarian+Chickenpox+Cases>

Dataset 7- <https://archive.ics.uci.edu/ml/datasets/KDD+Cup+1998+Data>

Dataset 8- <https://archive.ics.uci.edu/ml/datasets/Water+Quality+Prediction>

**Batch T3**

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| **Sr.No** | **Group(PRN no)** | **Question 1** | **Question 2** |
| 1 | 2019BTECS00050,2019BTECS00053 | Node.Js | Dataset 3 |
| 2 | 2019BTECS00058,2019BTECS00061 | Android SDK | Dataset 2 |
| 3 | 2019BTECS00076,2019BTECS00077 | Node.Js | Dataset 1 |
| 4 | 2019BTECS00080,2019BTECS00093 | DotNet | Dataset 5 |
| 5 | 2019BTECS00100,2019BTECS00102 | Ruby on Rails | Dataset 4 |
| 6 | 2019BTECS00105,2019BTECS00111 | Anaconda | Dataset 8 |
| 7 | 2020BTECS00202 ,2020BTECS00205 | Google colab | Dataset 6 |
| 8 | 2019BTECS00059,2020BTECS00208 | Eclipse | Dataset 7 |