CONTENTS

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LAB WORK

1. LAB 1:

1.1   COMMON SOLUTIONS

- **Increase Gradle Heap Size**
- **Disable Useless Plugins**
- **Adjusting Android Studio memory settings**
- **Enable Offline Work.**
- **Upgrade to latest Android Studio**

➢ Increase Gradle Heap Size

Close already opened project in Android studio **(File > Close Project).**

On Welcome window, Go to **Configure > Settings.**

Click **Build, Execution, Deployment**>Compiler.

Change Build process heap size (Mbytes) from 700 to 1024 and Additional build process to VM Options to **-Xmx4096m.**

Apply /Ok .

Restart Android Studio.

➢ Disable Useless Plugins

First, click on **File -> Settings -> Plugins**

Now, disable or Check Off all the plugins which not usable for you.

Click **Apply -> OK** and restart Android Studio.

➢ Adjusting Android Studio memory settings

We can Adjust our Android Studio memory settings for better performance.

Appearance & Behavior -> System Settings -> Memory Settings

1.2 STUDENT'S INDIVIDUAL WORK

1.2.1 FA17-BCS-014

Enable Offline Work:

- Open the **Preferences** window by clicking **File > Setting**
- In the left pane, click *Build, Execution, Deployment > Gradle*.
- After that check, the **Offline work** checkbox and click **Apply or OK.**

➢ *Replacing HDD by SSD can also improve the performance of Android Studio.*

1.2.1.1 COMMENTS:

By FA17-BCS-020:
Change your Hard Disk to SSD. Loading/Compiling/Designing/Writing time will be reduced even in 4GB RAM.

By FA17-BCS-024:
Use Power Save mode from File Menu that will reduce lots of background work.

1.2.2 FA17-BCS-020

Keep Your Tools Up-to-date:

- Download latest version **(https://gradle.org/gradle-download/)** and unpack somewhere.
- Update path in Android Studio: **File > Settings > Build, Ex../Gradle**

1.2.2.1 COMMENTS:

By FA17-BCS-014:
You can also change and configure Highlighting Level to Syntax or None from bottom right corner of status-bar. Remember this will disable syntax highlighting of error code.

By FA17-BCS-024:
Use Power Save mode from File Menu that will reduce lots of background work.

1.2.3   FA17-BCS-024

Disable Your Antivirus:

Disable your antivirus or mark the development and android studio folders in your antivirus as safe/add an exception so that it does not keep scanning again and again.

1.2.3.1   COMMENTS:

By FA17-BCS-014:
Furthermore, If you are using any antivirus , make sure to add Exception of all android studio directories (android, java, .android, .gradle, .androidstudio(version number) all those folders). So it won't try and Scan those while you are using Android Studio. It makes it even faster.

By FA17-BCS-024:
Don't install any theme or color scheme if you don't have a good config computer.