**Assignment # 5**

**Answer the following Questions**

Q1) If you create a new project with a blank activity named “MainActivity” in Android Studio; what will be the name of XML file automatically created in the “layout” folder [2]

Q2) Android Studio also creates “MainActivity.java” file automatically. Which activity lifecycle callback method is already implemented in this file? [2]

Q3) Consider following XML code of the MainActivity’s layout file, and answer the questions below: [8]

<TextView android:text="@string/txt\_welcome" android:textAppearance="@android:style/TextAppearance.Large" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:id="@+id/textView" />

<EditText

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:inputType="number" android:id="@+id/marks" android:layout\_below="@+id/textView" android:hint="@string/hint\_marks" android:layout\_alignParentLeft="true" android:layout\_alignParentStart="true" />

<Button

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="@string/btn\_grade" android:id="@+id/button" android:layout\_below="@+id/marks" android:onClick="CalculateGrade" android:layout\_alignParentLeft="true" android:layout\_alignParentStart="true"/>

Q3‐a) Which layout is being used to group the views in XML code?

Q3‐b) Do you think user will be able to enter word “AP” in the EditText, justify your answer.

Q3‐c) Seems like this file is using external string resources, what is the file name in which these string resources should be defined and in which folder?

Q3‐d) Write XML that will create string resources used in this layout?

Q5) In order to create a custom icon for this App, which icon you need to replace and in which folder (just name the default resource folder) you can find this icon? [3]

Q6) If you need to allow French users to automatically see string resource values in French, what do need to do? [3]

Q7) What are common Layouts? Explain in detail with diagrams. [6]

Q8) Differentiate the default and alternative resources with diagrams. [3]

Q9) Calculate Actual (Pixel) Width & Density Independent Pixels (dp) (4Marks): [3]

|  |  |  |
| --- | --- | --- |
|  | mdpi hdpi | mdpi hdpi |
| Physical Width | 1.5 inches |  |
| Dots Per Inch (dpi) | 160 |  |
| Actual (Pixels) Width | 240 |  |
| Density Independent Pixels (dp) | 240 |  |