Practical 2

Programming Resources

Android Resources: (Color, Theme, String, Drawable, Dimension, Image),

a) <u>Defining Color Property.</u>

- 1. Create a new project and go to:
 ProjectName>App>src>main>res>values>colors.xml
- 2. Defining new color properties in colors.xml

Go to
ProjectName->app->res->values->colors.xml

Colors.xml

Now go to activity_main.xml and type the following code:

- Drag and drop LinearLayout(Vertical) From Layout tab in Palette window
- Drag and drop four TextView from Text tab in palette window
- The default Code of one TextView is as follows

```
<TextView
android:id=''@+id/textView''
android:layout_width=''match_parent''
android:layout_height=''56dp''
android:text=''TextView''/>
```

Now call the colors from the colors.xml as

```
android:background="@color/Red"
```

Now the TextView Code looks like

```
<TextView
android:id="@+id/textView"
android:layout_width="match_parent"
android:layout_height="56dp"
android:text="TextView"

android:background="@color/Red"
```

Now the final Code of activity_main.xml is

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout height="match parent"
  tools:context=".MainActivity">
  <LinearLayout
    android:layout width="409dp"
    android:layout_height="729dp"
    android:orientation="vertical"
    tools:layout_editor_absoluteX="1dp"
    tools:layout editor absoluteY="1dp">
    <TextView
      android:id="@+id/textView"
      android:layout_width="match_parent"
      android:layout_height="56dp"
      android:text="TextView"
      android:background="@color/Red"
```

Output

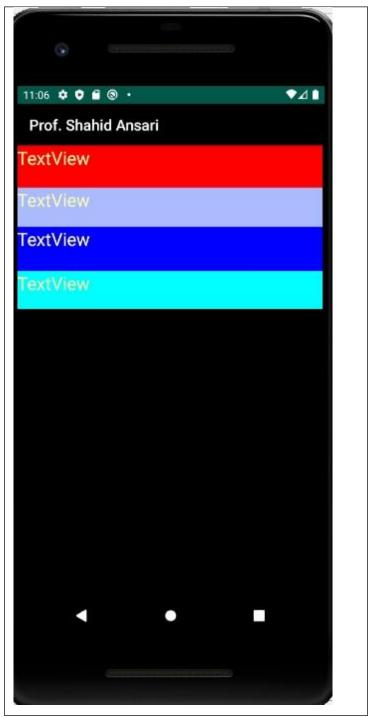


We are done with Colors

b) **Defining Theme Property.**

- Defining new theme properties in styles.xml
- Create a new project and go to: ProjectName>App>src>main>res>values>styles.xml

Output



We are done with the styles

c) Defining string property

- Defining paragraph and header property in **strings.xml**
- Create a new project and go to: ProjectName>App>src>main>res>values>strings.xml

Now go to activity_main.xml and type the following code

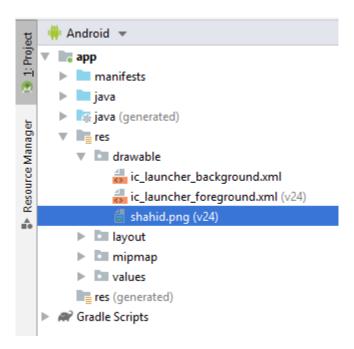
```
<TextView
  android:id="@+id/textView"
  android:layout width="match parent"
  android:layout_height="56dp"
  android:background="@color/Red"
                                                      Change this attribute
  android:text="@string/Heading"—
  android:textSize="24sp"/>
<TextView
  android:id="@+id/textView2"
  android:layout_width="match_parent"
  android:layout height="wrap content
  " android:background="@color/Grey"
                                                          Change this attribute
  android:text="@string/Description"
  android:textSize="24sp"/>
```

Output



d) Adding images and dimensions

- Adding Images to Application created
- For adding a new image files, do the following:
- ProjectName>App>src>main>res>drawable>Right-click and paste the images that are copied



• Add a new dim.xml file and write the following code in dimens.xml

Now go to activity_main.xml and type the following code:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns; and roid="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout height="match parent"
  tools:context=".MainActivity">
  <LinearLayout
    android:layout_width="409dp"
    android:layout height="729dp"
    android:orientation="vertical"
    tools:layout editor absoluteX="1dp"
    tools:layout_editor_absoluteY="1dp">
    <ImageView
      android:id="@+id/imageView"
      android:layout width="match parent"
      android:layout_height="wrap_content"
      app:srcCompat="@drawable/shahid"/>
  </LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
Output
```

