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Subject :- Mobile App Development

Course :- BSC(IT) V XML File for Flashlight

Ans-1 <?xml version="1.0"
encoding="utf-8"?>

<LinearLayout

~~xmlns:~~
android:layout_width="match-parent"
android:layout_height="match-parent"
android:orientation="vertical"
tools:context=". MainActivity"
tools:ignore="HardcodedText">

<TextView

android:layout_width="wrap-content"
android:layout_height="wrap-content"

android:layout_gravity="center"

android:layout_marginTop="100dp"

android:text="Flashlight"

android:textColor="@color/colorPrimary"

android:textSize="50sp"

android:textStyle="bold/italic"/>

<View

android:layout_width="match-parent"

android:layout_height="1dp"

android:layout_marginStart="32dp"

android:layout-marginTop="16dp"
android:layout-marginEnd="32dp"
android:background="@android:color/darker_gray"/>

< Toggle Button

android:id="@+id/toggle-flashlight"
android:layout-width="200dp"
android:layout-height="75dp"
android:layout-gravity="center"
android:textAlignment="viewStart"
android:layout-marginTop="32dp"
android:layout-onClick="toggleFlashlight"
android:textSize="25sp"/>

< Button

android:id="@+id/toggle-link"
android:layout-width="wrap-content"
android:layout-height="wrap-content"
android:text="@string/share"/>
</LinearLayout>

main Activity Java

public class MainActivity extends AppCompatActivity {

private Toggle Button

toggle Flashlight on/off;

private Camera Manager

camera Manager;

private String get Camera ID;

@ Override

protected void onCreate(Bundle savedInstanceState)

{

super.onCreate(savedInstanceState)

setContentView(R.layout.activity_main);

toggle Flashlight on/off = findViewById(R.id.
toggle-flashlight);

camera Manager = (Camera Manager)

getSystemService(Context.CAMERA_SERVICE);

get Camera ID =

camera Manager.getCameraIdList()[0];

} catch (CameraAccessException) {

e.printStackTrace();

}

} @ RequiresApi(api = Build.VERSION_CODES.M)

public void toggleFlashlight(View view) {

if

(toggleFlashlight on/off.isChecked())

{

```
cameraManager.setTorchMode(getCameraID(), true);  
Toast.makeText(MainActivity.this, "Flashlight is turned  
ON",  
Toast.LENGTH_SHORT).show();
```

```
} catch  
(CameraAccessException e) {  
    e.printStackTrace();  
}
```

```
}
```

```
} else {
```

```
cameraManager.setTorchMode(getCameraID(),  
false);
```

```
Toast.makeText(MainActivity.this,  
"Flashlight is turned OFF",  
Toast.LENGTH_SHORT).show();
```

```
} catch  
(CameraAccessException e) {  
    e.printStackTrace();  
}
```

```
}
```

```
}
```

```
}
```

```
}
```