

Mobile application development(CSE 3075)

20211CSE0223

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5CSE4

Experiment 13: Battery Percentage

1.Design (activity_main.xml)

```
xml version="1.8" encoding="utf-8"?>
droidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://scho
  android:layout_height="match_pare
 android:background="@color/abb">
     android:layout_height="wrap_content"
      android:layout_marginTop="78dp
     android:layout_marginBottom="61dp"
     app:layout_constraintBottom_toTopOf="@+id/button"
     app:layout_constraintHorizontal_bias="0.448
     app:layout constraintStart toStartOf="parent
     app:layout_constraintVertical_bias="0.101" />
     android:layout_marginBottom="69dp"
      app:layout_constraintEnd_toEndOf="@+id/textView
      app:layout_constraintStart_toStartOf="@+id/textView
 <ProgressBar</pre>
     android:layout height="8d
     android:layout_marginBottom="341dp"
     app:layout_constraintStart_toStartOf="@+id/button
      app:layout constraintTop toBottomOf="@+id/button" />
androidx.constraintlayout.widget.ConstraintLayout>
```

2.JAVA File (MainActivity.java)

```
package com.example.newproject_0223;
import android.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.content.IntentFilter;
import android.view.View;
import android.widget.Button;
import android.widget.Button;
import android.widget.ProgressBar;
import android.widget.ProgressBar);
import android.widget.ProgressBar;
import android.widget.ProgressBar;
import android.widget
```

NewJavaFile2.java

```
com.example.newproject_0223;
port android.content.BroadcastReceiver;
port android.content.Context;
 ort android.graphics.Color
port android.widget.TextView;
 TextView textView;
ProgressBar progressBar;
 NewJavaFile2(TextView tv,ProgressBar pb) {
  @SuppressLint("SetText118n")
  public void onReceive(Context context, Intent intent) {
   // int percentage-intent.getByteExtra("level", (byte) 0);
int percentage-intent.getIntExtra("level",0);
        textView.setText(percentage+"%");
        progressBar.setProgress(percentage);
progressBar.setProgressTintList(ColorStateList.valueOf(Color.GREEN));
    else if(percentage<50 && percentage>=20) {
        progressBar.setProgress(percentage);
        progressBar.setProgressBackgroundTintList(ColorStateList.valueOf(Color.YELLOW));
    else if(percentage<20 && percentage>=0) {
        textView.setText(percentage+"%")
         progressBar.setProgress(percentage)
         progressBar.setProgressBackgroundTintList(ColorStateList.valueOf(Color.RED));
```

AndroidManifest.xml

3.Output in the Emulator





