Assignment 10-1

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1. Screen shot

텍스트, 스크린샷이(가) 표시된 사진

자동 생성된 설명텍스트, 스크린샷이(가) 표시된 사진

자동 생성된 설명

1. Source code
   1. MainActivity.java

package com.example.sensors;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Context;  
import android.hardware.Sensor;  
import android.hardware.SensorEvent;  
import android.hardware.SensorEventListener;  
import android.hardware.SensorManager;  
import android.os.Bundle;  
import android.util.Log;  
import android.widget.TextView;  
  
public class MainActivity extends AppCompatActivity {  
  
 private TextView mTxt1;  
 private SensorManager mSM;  
 private Sensor myGravity;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 mTxt1 = (TextView) findViewById(R.id.*textView2*);  
 mSM = (SensorManager) getSystemService(Context.*SENSOR\_SERVICE*);  
  
 myGravity = mSM.getDefaultSensor(Sensor.*TYPE\_GRAVITY*);  
 mSM.registerListener(mySensorListener, myGravity, SensorManager.*SENSOR\_DELAY\_NORMAL*);  
 }  
  
 @Override  
 protected void onStart(){  
 super.onStart();  
 mSM.registerListener(mySensorListener, myGravity, SensorManager.*SENSOR\_DELAY\_GAME*);  
  
 }  
  
 @Override  
 protected void onPause() {  
 super.onPause();  
 mSM.unregisterListener(mySensorListener);  
 }  
  
 public SensorEventListener mySensorListener = new SensorEventListener() {  
 @Override  
 public void onSensorChanged(SensorEvent sensorEvent) {  
 if (sensorEvent.sensor.getType() == Sensor.*TYPE\_GRAVITY*) {  
 mTxt1.setText(Float.*toString*(sensorEvent.values[0]));  
 Log.*i*("TAG", Float.*toString*(sensorEvent.values[0]));  
 }  
 }  
  
  
 @Override  
 public void onAccuracyChanged(Sensor sensor, int i) {  
  
 }  
 };  
}

* 1. activity\_main.xml

<?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">  
  
 <TextView  
 android:id="@+id/textView1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Gravity Values"  
 android:textSize="34sp"  
 app:layout\_constraintBottom\_toBottomOf="@+id/textView2"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.76"/>  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="476dp"  
 android:text="NO RETURN"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 />  
  
</androidx.constraintlayout.widget.ConstraintLayout>