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ITC 335

Homework 1: Student Grading System

**Java Code:** MainActivity.java

**import** android.os.Bundle;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.TextView;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 Button showGrade = (Button) findViewById(R.id.***showGradebtn***);  
 showGrade.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
  
 EditText StudentID = (EditText) findViewById(R.id.***studentID***);  
 EditText CourseCode = (EditText) findViewById(R.id.***courseCode***);  
 EditText TotalMarks = (EditText) findViewById(R.id.***totalMarks***);  
 TextView StudentIDValue = (TextView) findViewById(R.id.***showSIDValue***);  
 TextView CourseCodeValue = (TextView) findViewById(R.id.***showCCValue***);  
 TextView TotalMarksValue = (TextView) findViewById(R.id.***showTMValue***);  
 TextView GradeValue = (TextView) findViewById(R.id.***showGValue***);  
 TextView StudentIDLabel = (TextView) findViewById(R.id.***showResultSID***);  
 TextView CourseCodeLabel = (TextView) findViewById(R.id.***showResultCC***);  
 TextView TotalMarksLabel = (TextView) findViewById(R.id.***showResultTM***);  
 TextView GradeLabel = (TextView) findViewById(R.id.***showResultG***);  
  
  
 **int** x = Integer.*parseInt*(StudentID.getText().toString());  
 String y = CourseCode.getText().toString();  
 **float** z = Float.*parseFloat*(TotalMarks.getText().toString());  
  
 **if** (z >= 94 && z <= 100) {  
 GradeValue.setText(**"A"**);  
 }  
 **else if** (z >= 90 && z <= 94) {  
 GradeValue.setText(**"A-"**);  
 }  
 **else if** (z >= 87 && z <= 90) {  
 GradeValue.setText(**"B+"**);  
 }  
 **else if** (z >= 84 && z <= 87) {  
 GradeValue.setText(**"B"**);  
 }  
 **else if** (z >= 80 && z <= 84) {  
 GradeValue.setText(**"B-"**);  
 }  
 **else if** (z >= 77 && z <= 80) {  
 GradeValue.setText(**"C+"**);  
 }  
 **else if** (z >= 74 && z <= 77) {  
 GradeValue.setText(**"C"**);  
 }  
 **else if** (z >= 70 && z <= 74) {  
 GradeValue.setText(**"C-"**);  
 }  
 **else if** (z >= 67 && z <= 70) {  
 GradeValue.setText(**"D+"**);  
 }  
 **else if** (z >= 60 && z <= 67) {  
 GradeValue.setText(**"D"**);  
 }  
 **else if** (z >= 0 && z <= 60) {  
 GradeValue.setText(**"F"**);  
 }  
 **else** {  
 GradeValue.setText(**"Entry out of range!"**);  
 }  
  
 StudentIDValue.setText(x + **""**);  
 CourseCodeValue.setText(y + **""**);  
 TotalMarksValue.setText(z + **""**);  
 StudentIDLabel.setText(**"Student ID"**);  
 CourseCodeLabel.setText(**"Course Code"**);  
 TotalMarksLabel.setText(**"Total Marks"**);  
 GradeLabel.setText(**"Grade"**);  
  
 }  
 });  
 }  
}

**XML Code:** activity\_main.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**android.support.constraint.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"  
 tools:layout\_editor\_absoluteY="81dp"**>  
  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="330dp"  
 android:layout\_height="40dp"  
 android:layout\_marginEnd="16dp"  
 android:layout\_marginLeft="16dp"  
 android:layout\_marginRight="16dp"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="24dp"  
 android:gravity="center\_horizontal"  
 android:text="@string/student\_grading\_system"  
 android:textColor="@android:color/darker\_gray"  
 android:textSize="30sp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**TextView  
 android:id="@+id/studentIDlbl"  
 android:layout\_width="120dp"  
 android:layout\_height="35dp"  
 android:layout\_marginLeft="16dp"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="28dp"  
 android:text="@string/student\_id"  
 android:textSize="18sp"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView"** />  
  
 <**TextView  
 android:id="@+id/courseCodelbl"  
 android:layout\_width="120dp"  
 android:layout\_height="35dp"  
 android:layout\_marginLeft="16dp"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="20dp"  
 android:text="@string/course\_code"  
 android:textSize="18sp"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/studentIDlbl"** />  
  
 <**TextView  
 android:id="@+id/totalMarkslbl"  
 android:layout\_width="120dp"  
 android:layout\_height="35dp"  
 android:layout\_marginLeft="16dp"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="22dp"  
 android:text="@string/total\_marks"  
 android:textSize="18sp"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/courseCodelbl"** />  
  
 <**EditText  
 android:id="@+id/studentID"  
 android:layout\_width="210dp"  
 android:layout\_height="41dp"  
 android:layout\_marginEnd="16dp"  
 android:layout\_marginLeft="16dp"  
 android:layout\_marginRight="16dp"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="16dp"  
 android:ems="10"  
 android:inputType="number"  
 android:textSize="18sp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toEndOf="@+id/studentIDlbl"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView"** />  
  
 <**EditText  
 android:id="@+id/courseCode"  
 android:layout\_width="210dp"  
 android:layout\_height="41dp"  
 android:layout\_marginEnd="16dp"  
 android:layout\_marginLeft="16dp"  
 android:layout\_marginRight="16dp"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="16dp"  
 android:ems="10"  
 android:inputType="textCapCharacters"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toEndOf="@+id/courseCodelbl"  
 app:layout\_constraintTop\_toBottomOf="@+id/studentID"** />  
  
 <**EditText  
 android:id="@+id/totalMarks"  
 android:layout\_width="210dp"  
 android:layout\_height="41dp"  
 android:layout\_marginEnd="16dp"  
 android:layout\_marginLeft="16dp"  
 android:layout\_marginRight="16dp"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="16dp"  
 android:ems="10"  
 android:inputType="number|numberDecimal"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toEndOf="@+id/totalMarkslbl"  
 app:layout\_constraintTop\_toBottomOf="@+id/courseCode"** />  
  
 <**Button  
 android:id="@+id/showGradebtn"  
 android:layout\_width="113dp"  
 android:layout\_height="43dp"  
 android:layout\_marginEnd="16dp"  
 android:layout\_marginLeft="56dp"  
 android:layout\_marginRight="16dp"  
 android:layout\_marginStart="56dp"  
 android:layout\_marginTop="16dp"  
 android:background="@android:color/holo\_blue\_light"  
 android:text="@string/show\_grade"  
 android:textColor="@android:color/background\_light"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/totalMarks"** />  
  
 <**TextView  
 android:id="@+id/showResultSID"  
 android:layout\_width="105dp"  
 android:layout\_height="40dp"  
 android:layout\_marginLeft="16dp"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="16dp"  
 android:textSize="18sp"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/showGradebtn"** />  
  
 <**TextView  
 android:id="@+id/showResultCC"  
 android:layout\_width="105dp"  
 android:layout\_height="40dp"  
 android:layout\_marginLeft="16dp"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="16dp"  
 android:textSize="18sp"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/showResultSID"** />  
  
 <**TextView  
 android:id="@+id/showResultTM"  
 android:layout\_width="105dp"  
 android:layout\_height="40dp"  
 android:layout\_marginLeft="16dp"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="16dp"  
 android:textSize="18sp"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/showResultCC"** />  
  
 <**TextView  
 android:id="@+id/showResultG"  
 android:layout\_width="105dp"  
 android:layout\_height="40dp"  
 android:layout\_marginLeft="16dp"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="16dp"  
 android:textSize="18sp"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/showResultTM"** />  
  
 <**TextView  
 android:id="@+id/showSIDValue"  
 android:layout\_width="105dp"  
 android:layout\_height="40dp"  
 android:layout\_marginEnd="117dp"  
 android:layout\_marginRight="117dp"  
 android:layout\_marginTop="16dp"  
 android:textColor="@android:color/holo\_green\_light"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/showGradebtn"** />  
  
 <**TextView  
 android:id="@+id/showCCValue"  
 android:layout\_width="105dp"  
 android:layout\_height="40dp"  
 android:layout\_marginEnd="117dp"  
 android:layout\_marginRight="117dp"  
 android:layout\_marginTop="16dp"  
 android:textColor="@android:color/holo\_orange\_dark"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/showSIDValue"** />  
  
 <**TextView  
 android:id="@+id/showTMValue"  
 android:layout\_width="105dp"  
 android:layout\_height="40dp"  
 android:layout\_marginEnd="117dp"  
 android:layout\_marginRight="117dp"  
 android:layout\_marginTop="16dp"  
 android:textColor="@android:color/holo\_red\_light"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/showCCValue"** />  
  
 <**TextView  
 android:id="@+id/showGValue"  
 android:layout\_width="202dp"  
 android:layout\_height="40dp"  
 android:layout\_marginEnd="20dp"  
 android:layout\_marginRight="20dp"  
 android:layout\_marginTop="16dp"  
 android:textColor="@android:color/holo\_blue\_light"  
 android:textSize="18sp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/showTMValue"** />  
</**android.support.constraint.ConstraintLayout**>

**Screenshots/Demo**

 

 