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**Course :-** BCA

**Subject :-** Android Studio

**Std id :-** 20042205

**Roll no :-** 2092034

**Practical-2**

**Objective:** android program to make mark sheet calculator.

**CODE:**

**XML CODE:**

<?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/textView2"

android:layout\_width="309dp"

android:layout\_height="56dp"

android:scaleX="1"

android:scaleY="1"

android:text="REPORT CARD"

android:textAlignment="center"

android:textSize="34sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.023"

tools:layout\_editor\_absoluteX="51dp" />

<TextView

android:id="@+id/textView3"

android:layout\_width="125dp"

android:layout\_height="27dp"

android:text="subject 1"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.055"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.167" />

<TextView

android:id="@+id/textView5"

android:layout\_width="125dp"

android:layout\_height="27dp"

android:text="subject 2"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.055"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/textView3"

app:layout\_constraintVertical\_bias="0.039" />

<TextView

android:id="@+id/textView6"

android:layout\_width="125dp"

android:layout\_height="27dp"

android:text="subject 3"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.055"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/textView5"

app:layout\_constraintVertical\_bias="0.035" />

<TextView

android:id="@+id/textView7"

android:layout\_width="125dp"

android:layout\_height="27dp"

android:text="subject 4"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.055"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/textView6"

app:layout\_constraintVertical\_bias="0.04" />

<TextView

android:id="@+id/textView8"

android:layout\_width="125dp"

android:layout\_height="27dp"

android:text="subject 5"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.055"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/textView7"

app:layout\_constraintVertical\_bias="0.033" />

<TextView

android:id="@+id/textView12"

android:layout\_width="125dp"

android:layout\_height="27dp"

android:text="result"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.055"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/textView11"

app:layout\_constraintVertical\_bias="0.352" />

<TextView

android:id="@+id/textView10"

android:layout\_width="125dp"

android:layout\_height="27dp"

android:text="total"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.055"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/textView8"

app:layout\_constraintVertical\_bias="0.423" />

<TextView

android:id="@+id/textView13"

android:layout\_width="125dp"

android:layout\_height="27dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.744"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/editTextTextPersonName6"

app:layout\_constraintVertical\_bias="0.422" />

<TextView

android:id="@+id/textView14"

android:layout\_width="125dp"

android:layout\_height="27dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.744"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/textView13"

app:layout\_constraintVertical\_bias="0.223" />

<TextView

android:id="@+id/textView15"

android:layout\_width="125dp"

android:layout\_height="27dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.744"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/textView14"

app:layout\_constraintVertical\_bias="0.352" />

<TextView

android:id="@+id/textView11"

android:layout\_width="125dp"

android:layout\_height="27dp"

android:text="percentage"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.055"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/textView10"

app:layout\_constraintVertical\_bias="0.223" />

<EditText

android:id="@+id/editTextTextPersonName2"

android:layout\_width="215dp"

android:layout\_height="38dp"

android:ems="1"

android:hint="out of 100"

android:inputType="numberDecimal"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.709"

app:layout\_constraintStart\_toEndOf="@+id/textView3"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.154" />

<EditText

android:id="@+id/editTextTextPersonName3"

android:layout\_width="215dp"

android:layout\_height="38dp"

android:ems="10"

android:hint="out of 100"

android:inputType="numberDecimal"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.709"

app:layout\_constraintStart\_toEndOf="@+id/textView3"

app:layout\_constraintTop\_toBottomOf="@+id/editTextTextPersonName2"

app:layout\_constraintVertical\_bias="0.018" />

<EditText

android:id="@+id/editTextTextPersonName4"

android:layout\_width="215dp"

android:layout\_height="38dp"

android:ems="10"

android:hint="out of 100"

android:inputType="numberDecimal"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.709"

app:layout\_constraintStart\_toEndOf="@+id/textView3"

app:layout\_constraintTop\_toBottomOf="@+id/editTextTextPersonName3"

app:layout\_constraintVertical\_bias="0.014" />

<EditText

android:id="@+id/editTextTextPersonName5"

android:layout\_width="215dp"

android:layout\_height="38dp"

android:ems="10"

android:hint="out of 100"

android:inputType="numberDecimal"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.709"

app:layout\_constraintStart\_toEndOf="@+id/textView3"

app:layout\_constraintTop\_toBottomOf="@+id/editTextTextPersonName4"

app:layout\_constraintVertical\_bias="0.017" />

<EditText

android:id="@+id/editTextTextPersonName6"

android:layout\_width="215dp"

android:layout\_height="38dp"

android:ems="10"

android:hint="out of 100"

android:inputType="numberDecimal"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.709"

app:layout\_constraintStart\_toEndOf="@+id/textView3"

app:layout\_constraintTop\_toBottomOf="@+id/editTextTextPersonName5"

app:layout\_constraintVertical\_bias="0.009" />

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:onClick="btn1"

android:text="Button"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

**JAVA CODE:**

package com.example.gb.reportcards;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

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);

}

public void btn1(View s1)

{

TextView t1 = findViewById(R.id.textView13);

TextView t2 = findViewById(R.id.textView14);

TextView t3= findViewById(R.id.textView15);

EditText e1 = findViewById(R.id.editTextTextPersonName2);

EditText e2 = findViewById(R.id.editTextTextPersonName3);

EditText e3 = findViewById(R.id.editTextTextPersonName4);

EditText e4 = findViewById(R.id.editTextTextPersonName5);

EditText e5 = findViewById(R.id.editTextTextPersonName6);

String s = e1.getText().toString();

String s5 = e2.getText().toString();

String s2 = e3.getText().toString();

String s3 = e4.getText().toString();

String s4 = e5.getText().toString();

int sub1 = Integer.parseInt(s);

int sub2 = Integer.parseInt(s5);

int sub3 = Integer.parseInt(s2);

int sub4 = Integer.parseInt(s3);

int sub5 = Integer.parseInt(s4);

double total = sub1+sub2+sub3+sub4+sub5;

t1.setText(" " +total);

double percentage = (sub1+sub2+sub3+sub4+sub5)\*100/500;

t2.setText(" " +percentage );

if (percentage>60)

{

t3.setText("first division");

}

else if (percentage>45)

{

t3.setText("second division");

}

else if (percentage>33)

{

t3.setText("third division");

}

else

{

t3.setText("Fail");

}

}

}

**OUTPUT:-**

