Q. Program to add two numbers

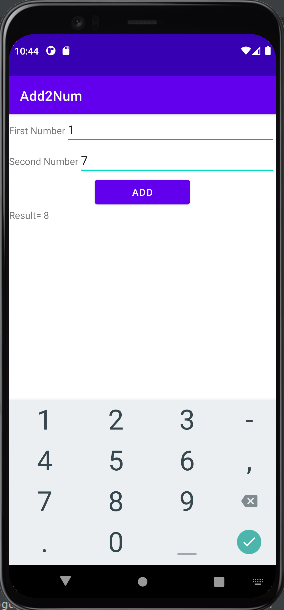
MainActivity.java

package com.example.add2num;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class MainActivity extends AppCompatActivity {  
 Button b;  
 TextView tv;  
 EditText et,et2;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 b=findViewById(R.id.*btn*);  
 tv=findViewById(R.id.*text1*);  
 et=findViewById(R.id.*edit*);  
 et2=findViewById(R.id.*edit2*);  
 b.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
  
 Integer val1=Integer.*parseInt*(et.getText().toString());  
 Integer val2=Integer.*parseInt*(et2.getText().toString());  
 Integer val3=val1+val2;  
 if(et.length()>5 ){  
 et.setError("Too Long");  
 }  
  
 else {  
 tv.setText("Result= "+val3);  
 }  
 }  
 });  
  
  
 }  
}

activity\_main.xml

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout 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"  
 android:orientation="vertical"  
 tools:context=".MainActivity">  
  
<LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/tv"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="First Number" />  
  
 <EditText  
 android:id="@+id/edit"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="number" />  
</LinearLayout>  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal">  
 <TextView  
 android:id="@+id/tv2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Second Number" />  
  
  
 <EditText  
 android:id="@+id/edit2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="number" />  
 </LinearLayout>  
 <Button  
 android:id="@+id/btn"  
 android:layout\_width="140dp"  
 android:layout\_gravity="center"  
 android:layout\_height="wrap\_content"  
 android:text="Add" />  
  
 <TextView  
 android:id="@+id/text1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 />  
  
  
</LinearLayout>

Output

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Q. Program to check odd or even

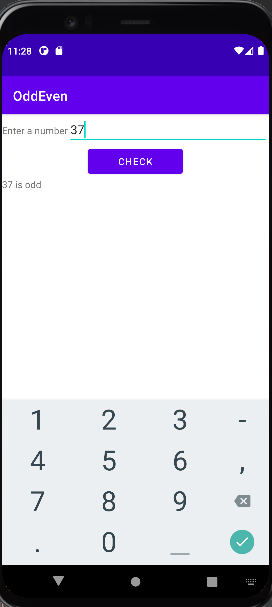
MainActivity.java

package com.example.oddeven;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class MainActivity extends AppCompatActivity {  
  
 Button b;  
 EditText et;  
 TextView tv;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 b=findViewById(R.id.*btn*);  
 et=findViewById(R.id.*et*);  
 tv=findViewById(R.id.*tv2*);  
 b.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Integer num=Integer.*parseInt*(et.getText().toString());  
 if(num%2==0){  
 tv.setText(num+" is even");  
 }  
 else{  
 tv.setText(num+" is odd");  
 }  
 }  
 });  
 }  
}

activity\_main.xml

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout 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"  
 android:orientation="vertical"  
 tools:context=".MainActivity">  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/tv"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Enter a number"  
 />  
  
 <EditText  
 android:id="@+id/et"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="number" />  
 </LinearLayout>  
 <Button  
 android:id="@+id/btn"  
 android:layout\_width="140dp"  
 android:layout\_gravity="center"  
 android:layout\_height="wrap\_content"  
 android:text="Check" />  
  
 <TextView  
 android:id="@+id/tv2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 />  
  
</LinearLayout>

Output



Q. calculator

MainActivity.java

package com.example.calculator;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class MainActivity extends AppCompatActivity {  
  
 Button b1,b2,b3,b4;  
 EditText et1,et2;  
 TextView tv;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 b1=findViewById(R.id.*btn1*);  
 b2=findViewById(R.id.*btn2*);  
 b3=findViewById(R.id.*btn3*);  
 b4=findViewById(R.id.*btn4*);  
 et1=findViewById(R.id.*et1*);  
 et2=findViewById(R.id.*et2*);  
 tv=findViewById(R.id.*tv*);  
 b1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Integer n1=Integer.*parseInt*(et1.getText().toString());  
 Integer n2=Integer.*parseInt*(et2.getText().toString());  
 Integer n3=n1+n2;  
 tv.setText("result "+n3);  
  
 }  
 });  
 b2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Integer n1=Integer.*parseInt*(et1.getText().toString());  
 Integer n2=Integer.*parseInt*(et2.getText().toString());  
 Integer n3=n1-n2;  
 tv.setText("result "+n3);  
  
  
 }  
 });  
 b3.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Integer n1=Integer.*parseInt*(et1.getText().toString());  
 Integer n2=Integer.*parseInt*(et2.getText().toString());  
 Integer n3=n1\*n2;  
 tv.setText("result "+n3);  
  
  
 }  
 });  
 b4.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Float n1=Float.*parseFloat*(et1.getText().toString());  
 Float n2=Float.*parseFloat*(et2.getText().toString());  
 Float n3=n1/n2;  
 tv.setText("result "+n3);  
  
  
 }  
 });  
  
 }  
}

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">  
  
 <EditText  
 android:id="@+id/et2"  
 android:layout\_width="308dp"  
 android:layout\_height="63dp"  
 android:ems="10"  
 android:hint="Enter second number"  
 android:inputType="number"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.533"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.263" />  
  
 <Button  
 android:id="@+id/btn1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="ADD"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.321"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.386" />  
  
 <Button  
 android:id="@+id/btn2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="SUB"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.738"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.387" />  
  
 <Button  
 android:id="@+id/btn3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="MUL"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.321"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.499" />  
  
 <Button  
 android:id="@+id/btn4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="DIV"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.738"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.499" />  
  
 <EditText  
 android:id="@+id/et1"  
 android:layout\_width="304dp"  
 android:layout\_height="62dp"  
 android:ems="10"  
 android:hint="Enter first number"  
 android:inputType="number"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.509"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.108" />  
  
 <TextView  
 android:id="@+id/tv"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.543"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.617"  
 android:textSize="30sp"/>  
  
</androidx.constraintlayout.widget.ConstraintLayout>

Output

