Slip1

Q1 . Create “Hello World “ Application. That will display “Hello World “ in middle of the Screen in blue color with white background with a border to Android Layout. [10]

Main.xml

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout 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:background="#000000"

android:padding="10dp"

tools:context=".MainActivity">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="horizontal"

android:background="@drawable/border">

<TextView

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:gravity="center\_vertical|center\_horizontal"

android:text="HELL"

android:background="#A00000f"

android:textColor="#0fffff"

android:textSize="40dp" />

</LinearLayout>

</RelativeLayout>

Border.xml (go to res folder; create an a new andriod resouce file; and include it in linear layout function has [android:background="@drawable/border"] )

<?xml version="1.0" encoding="utf-8"?>

<shape xmlns:android="http://schemas.android.com/apk/res/android"

android:shape="rectangle">

<stroke

android:width="20dp"

android:color="#fffff"></stroke>

</shape>

Q2. Create an application to accept Movie details like Name, Release Year, Collection and display the same information on the next activity.

Slip 2

2. Display 15 images in 2-Dimensional scrolling grid. Information of selected with position will be displayed using Toast message

main

package com.example.scroll;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.AdapterView;

import android.widget.GridView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

Integer[] imageIDs = {

R.drawable.book,

R.drawable.bubble,

R.drawable.coffee,

R.drawable.cup,

R.drawable.coins1,

R.drawable.education

};

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

GridView gridView = (GridView) findViewById(R.id.gridview);

gridView.setAdapter(new ImageAdapter(this));

gridView.setOnItemClickListener(new AdapterView.OnItemClickListener() {

@Override

public void onItemClick(AdapterView<?> parent, View v, int position, long id) {

Toast.makeText(getBaseContext(),"pic" + (position + 1) + "selected", Toast.LENGTH\_SHORT).show();

}

});

}

}

xml

<?xml version="1.0" encoding="utf-8"?>

<ScrollView 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">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical">

<GridView

android:id="@+id/gridview"

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:numColumns="3"

android:verticalSpacing="10dp"

android:horizontalSpacing="10dp"

android:columnWidth="90dp"

android:stretchMode="columnWidth"

android:gravity="center">

</GridView>

</LinearLayout>

</ScrollView>

ImageAdapter

package com.example.scroll;

import android.content.Context;

import android.view.View;

import android.view.ViewGroup;

import android.widget.BaseAdapter;

import android.widget.GridLayout;

import android.widget.GridView;

import android.widget.ImageView;

import com.example.scroll.R;

public class ImageAdapter extends BaseAdapter {

private Context context;

public ImageAdapter(Context c) {

context = c;

}

@Override

public int getCount() {

return imageIds.length;

}

@Override

public Object getItem(int position) {

return null;

}

@Override

public long getItemId(int position) {

return 0;

}

@Override

public View getView(int position, View convertView, ViewGroup parent) {

ImageView imageView;

if (convertView == null){

imageView = new ImageView(context);

imageView.setLayoutParams(new GridView.LayoutParams(185,185));

imageView.setScaleType(ImageView.ScaleType.CENTER\_CROP);

imageView.setPadding(5,5,5,5);

}else {

imageView = (ImageView) convertView;

}

imageView.setImageResource(imageIds[position]);

return imageView;

}

Integer[] imageIds = {

R.drawable.book,

R.drawable.bubble,

R.drawable.coffee,

R.drawable.cup,

R.drawable.coins1,

R.drawable.education

};

}

Slip3

Create a simple Application which shows Life Cycle of activity

**.JAVA**

package com.example.activitylifecycle;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.support.v7.view.menu.ShowableListMenu;

import android.util.Log;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

String t="event";

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Toast.makeText(getApplicationContext(),"hello all",Toast.LENGTH\_SHORT).show();

}

@Override

protected void onStart() {

super.onStart();

Log.d(t,"on start");

}

protected void onStop(){

super.onStop();

Log.d(t, "on Stop");

}

@Override

protected void onPause() {

super.onPause();

Log.d(t,"on pause");

}

@Override

protected void onResume() {

super.onResume();

Log.d(t, "onResume: ");

}

}

**.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">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello World!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

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

</android.support.constraint.ConstraintLayout>

2.Create Application to demonstrate date and time picker

package com.example.myapplication;  
  
import androidx.annotation.RequiresApi;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Build;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.DatePicker;  
import android.widget.TimePicker;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
 TimePicker tp;  
 DatePicker dp;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 tp=(TimePicker)findViewById(R.id.*timePicker*);  
 dp=(DatePicker) findViewById(R.id.*datePicker*);  
  
 }  
  
 @RequiresApi(api = Build.VERSION\_CODES.*M*)  
 public void onClick(View view){  
 Toast.*makeText*(getBaseContext(),"Time Selected"+tp.getHour()+":"+tp.getMinute(),Toast.*LENGTH\_SHORT*).show();  
  
  
 }  
 public void showDate(View view){  
 Toast.*makeText*(getBaseContext(),"Date Selected"+dp.getMonth()+"/"+dp.getDayOfMonth()+"/"+dp.getYear(),Toast.*LENGTH\_SHORT*).show();  
  
 }  
  
}

activity .main

<?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"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Hello World!"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TimePicker  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/timePicker"/>  
  
  
 <Button  
 android:id="@+id/btnset"  
 android:layout\_width="70dp"  
 android:layout\_height="31dp"  
 android:onClick="onClick"  
 tools:layout\_editor\_absoluteX="174dp"  
 tools:layout\_editor\_absoluteY="193dp"/>  
  
 <DatePicker  
 android:layout\_width="wrap\_content"  
 android:layout\_height="250dp"  
 android:id="@+id/datePicker" />  
  
 <Button  
 android:layout\_width="70dp"  
 android:layout\_height="17dp"  
 android:id="@+id/btndp"  
 android:onClick="showDate"  
 tools:layout\_editor\_absoluteX="174dp"  
 tools:layout\_editor\_absoluteY="193dp"/>  
  
  
  
  
  
  
  
</LinearLayout>

Slip4

1.lifecycle

**.JAVA**

package com.example.activitylifecycle;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.support.v7.view.menu.ShowableListMenu;

import android.util.Log;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

String t="event";

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Toast.makeText(getApplicationContext(),"hello all",Toast.LENGTH\_SHORT).show();

}

@Override

protected void onStart() {

super.onStart();

Log.d(t,"on start");

}

protected void onStop(){

super.onStop();

Log.d(t, "on Stop");

}

@Override

protected void onPause() {

super.onPause();

Log.d(t,"on pause");

}

@Override

protected void onResume() {

super.onResume();

Log.d(t, "onResume: ");

}

}

**.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">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello World!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

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

</android.support.constraint.ConstraintLayout>

2.calculator

Activity main

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;

public class MainActivity extends AppCompatActivity {

Button button0 , button1 , button2 , button3 ,button4 , button5 , button6 , button7 , button8 , button9 ,

buttonAdd, buttonSub , buttonDivision , buttonMul , button10 , buttonC , buttonEqual;

EditText edt1;

float mValueOne, mValueTwo;

boolean mAddition, mSubtract, mMultiplication, mDivision;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

button0 = (Button) findViewById(R.id.button0);

button1 = (Button) findViewById(R.id.button1);

button2 = (Button) findViewById(R.id.button2);

button3 = (Button) findViewById(R.id.button3);

button4 = (Button) findViewById(R.id.button4);

button5 = (Button) findViewById(R.id.button5);

button6 = (Button) findViewById(R.id.button6);

button7 = (Button) findViewById(R.id.button7);

button8 = (Button) findViewById(R.id.button8);

button9 = (Button) findViewById(R.id.button9);

button10 = (Button) findViewById(R.id.button10);

buttonAdd = (Button) findViewById(R.id.buttonadd);

buttonSub = (Button) findViewById(R.id.buttonsub);

buttonMul = (Button) findViewById(R.id.buttonmul);

buttonDivision = (Button) findViewById(R.id.buttondiv);

buttonC = (Button) findViewById(R.id.buttonC);

buttonEqual = (Button) findViewById(R.id.buttoneql);

edt1 = (EditText) findViewById(R.id.edt1);

button1.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"1");

}

});

button2.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"2");

}

});

button3.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"3");

}

});

button4.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"4");

}

});

button5.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"5");

}

});

button6.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"6");

}

});

button7.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"7");

}

});

button8.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"8");

}

});

button9.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"9");

}

});

button0.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"0");

}

});

buttonAdd.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

if(edt1 == null){

edt1.setText("");

}else{

mValueOne = Float.parseFloat(edt1.getText() + "");

mAddition = true;

edt1.setText(null);

}

}

});

buttonSub.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

mValueOne = Float.parseFloat(edt1.getText() + "");

mSubtract = true;

edt1.setText(null);

}

});

buttonSub.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

mValueOne = Float.parseFloat(edt1.getText() + "");

mSubtract = true;

edt1.setText(null);

}

});

buttonMul.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

mValueOne = Float.parseFloat(edt1.getText() + "");

mMultiplication = true;

edt1.setText(null);

}

});

buttonDivision.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

mValueOne = Float.parseFloat(edt1.getText() + "");

mDivision = true;

edt1.setText(null);

}

});

buttonEqual.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

mValueTwo = Float.parseFloat(edt1.getText() + "");

if (mAddition == true){

edt1.setText(mValueOne + mValueTwo + "");

mAddition=false;

}

if (mSubtract == true){

edt1.setText(mValueOne - mValueTwo + "");

mSubtract=false;

}

if (mMultiplication == true){

edt1.setText(mValueOne \* mValueTwo + "");

mMultiplication=false;

}

if (mDivision == true){

edt1.setText(mValueOne / mValueTwo + "");

mDivision=false;

}

}

});

buttonC.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText("");

}

});

button10.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+".");

}

});

}

}

xml

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout 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/edt1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="" />

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="1"

android:id="@+id/button1"

android:layout\_marginTop="94dp"

android:layout\_below="@+id/edt1"

android:layout\_toStartOf="@+id/button4"

android:layout\_alignRight="@+id/button4"

android:layout\_alignEnd="@+id/button4"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="2"

android:id="@+id/button2"

android:layout\_alignTop="@+id/button1"

android:layout\_toLeftOf="@+id/button3"

android:layout\_toStartOf="@+id/button3"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="3"

android:id="@+id/button3"

android:layout\_alignTop="@+id/button2"

android:layout\_centerHorizontal="true"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="4"

android:id="@+id/button4"

android:layout\_below="@+id/button1"

android:layout\_toLeftOf="@+id/button2" />

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="5"

android:id="@+id/button5"

android:layout\_alignBottom="@+id/button4"

android:layout\_alignLeft="@+id/button2"

android:layout\_alignStart="@+id/button2"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="6"

android:id="@+id/button6"

android:layout\_below="@+id/button3"

android:layout\_alignLeft="@+id/button3"

android:layout\_alignStart="@+id/button3"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="7"

android:id="@+id/button7"

android:layout\_below="@+id/button4"

android:layout\_toLeftOf="@+id/button2" />

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="8"

android:id="@+id/button8"

android:layout\_below="@+id/button5"

android:layout\_alignLeft="@id/button5"

android:layout\_alignStart="@+id/button5"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="9"

android:id="@+id/button9"

android:layout\_below="@id/button6"

android:layout\_alignLeft="@id/button6"

android:layout\_alignStart="@id/button6"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="+"

android:id="@+id/buttonadd"

android:layout\_alignTop="@id/button3"

android:layout\_toRightOf="@id/button3"

android:layout\_marginLeft="46dp"

android:layout\_marginStart="46dp"

android:layout\_alignRight="@id/edt1"

android:layout\_alignEnd="@id/edt1"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="-"

android:id="@+id/buttonsub"

android:layout\_below="@id/buttonadd"

android:layout\_alignLeft="@id/buttonadd"

android:layout\_alignStart="@id/buttonadd"

android:layout\_alignRight="@id/buttonadd"

android:layout\_alignEnd="@id/buttonadd"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="\*"

android:id="@+id/buttonmul"

android:layout\_below="@id/buttonsub"

android:layout\_alignLeft="@id/buttonsub"

android:layout\_alignStart="@id/buttonsub"

android:layout\_alignParentRight="true"

android:layout\_alignParentEnd="true"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="."

android:id="@+id/button10"

android:layout\_below="@id/button7"

android:layout\_toLeftOf="@id/button2"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="="

android:id="@+id/buttoneql"

android:layout\_below="@id/button0"

android:layout\_marginTop="37dp"

android:layout\_alignRight="@id/buttondiv"

android:layout\_alignEnd="@id/buttondiv"

android:layout\_alignLeft="@id/button10"

android:layout\_alignStart="@id/button10"

/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="/"

android:id="@+id/buttondiv"

android:layout\_below="@id/buttonmul"

android:layout\_alignLeft="@id/buttonmul"

android:layout\_alignStart="@id/buttonmul"

android:layout\_alignRight="@id/buttonmul"

android:layout\_alignEnd="@id/buttonmul"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="C"

android:id="@+id/buttonC"

android:layout\_below="@id/button9"

android:layout\_alignLeft="@id/button9"

android:layout\_alignStart="@id/button9"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="0"

android:id="@+id/button0"

android:layout\_below="@id/button8"

android:layout\_alignLeft="@id/button8"

android:layout\_alignStart="@id/button8"/>

</RelativeLayout>

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

Slip 5

Q1 . Create “Hello World “ Application. That will display “Hello World “ in middle of the Screen in blue color with white background with a border to Android Layout. [10]

Main.xml

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout 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:background="#000000"

android:padding="10dp"

tools:context=".MainActivity">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="horizontal"

android:background="@drawable/border">

<TextView

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:gravity="center\_vertical|center\_horizontal"

android:text="HELL"

android:background="#A00000f"

android:textColor="#0fffff"

android:textSize="40dp" />

</LinearLayout>

</RelativeLayout>

Border.xml (go to res folder; create an a new andriod resouce file; and include it in linear layout function has [android:background="@drawable/border"] )

<?xml version="1.0" encoding="utf-8"?>

<shape xmlns:android="http://schemas.android.com/apk/res/android"

android:shape="rectangle">

<stroke

android:width="20dp"

android:color="#fffff"></stroke>

</shape>

Q2

.Create a Simple Application Which Send ―Hello‖ message from one activity to another with help of Button (Use Intent).

**acivity 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">

<EditText

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/t1"

/>

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" />

</LinearLayout>

**MAIN ACTIVITY.JAVA**

package com.example.intenttext;

import android.content.Intent;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

EditText t1;

Button b1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

t1=(EditText) findViewById(R.id.t1);

b1=(Button)findViewById(R.id.b1);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String str= t1.getText().toString();

Intent intent= new Intent(getApplicationContext(),SecondActivity.class);

intent.putExtra("msg\_key", str);

startActivity(intent);

}

});

}

}

**ACITVITYSECOND.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"

tools:context=".SecondActivity">

<TextView

android:id="@+id/t1"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent" />

</LinearLayout>

**SECONDEACTIVITY.JAVA**

package com.example.intenttext;

import android.content.Intent;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.TextView;

public class SecondActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_second);

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

Intent intent= getIntent();

String str= intent.getStringExtra("msg\_key");

msg.setText(str);

}

}

Slip 6

Scrollview of button

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">

<ScrollView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical" >

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button1"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button2"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button3"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button4"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button5"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button6"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button7"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button8"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button9"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button10"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button11"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button12"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button13"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button14"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button15"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button16"/>

</LinearLayout>

</ScrollView>

</android.support.constraint.ConstraintLayout>

Q2. Create First Activity to accept information like Student First Name, Middle Name, Last Name, Date of birth, Address, Email ID and display all information on Second Activity when user click on Submit button.

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

Slip 7

Scroll button

Slip q1 ans

Q2. Create simple application with Login Screen. On successful login, gives message go to next Activity (Without Using Database).

main.java

package com.example.intent;

import androidx.appcompat.app.AppCompatActivity;

import android.content.DialogInterface;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

Button b1;

EditText e1, e2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

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

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

b1= (Button) findViewById(R.id.button1);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String uname = "Admin";

String password = "Admin123";

if ((e1.getText().toString().equals(uname)) && (e2.getText().toString().equals(password))){

Intent intent = new Intent(getApplicationContext(),second.class);

intent.putExtra("SUCCESS","Success");

startActivity(intent);

}

else

{Intent intent = new Intent(getApplicationContext(),second.class);

intent.putExtra("SUCCESS","Invalid");

startActivity(intent);

}}

});

}

}

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">

<EditText

android:id="@+id/edtEmail"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Email"

android:inputType="text"

tools:layout\_editor\_absoluteX="77dp"

tools:layout\_editor\_absoluteY="100dp" />

<EditText

android:id="@+id/edtPass"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Password"

android:inputType="text"

tools:layout\_editor\_absoluteX="84dp"

tools:layout\_editor\_absoluteY="201dp" />

<Button

android:id="@+id/button1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Button" />

</LinearLayout>

second java

package com.example.intent;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.widget.EditText;

import android.widget.TextView;

public class second extends AppCompatActivity {

TextView t1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_second);

setContentView(R.layout.activity\_second);

t1=findViewById(R.id.t1);

Intent intent=getIntent();

String str=intent.getStringExtra("SUCCESS");

t1.setText(str);

}

}

second 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"

tools:context=".second">

<TextView

android:id="@+id/t1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="TextView"

tools:layout\_editor\_absoluteX="125dp"

tools:layout\_editor\_absoluteY="120dp" />

</LinearLayout>

+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

Slip 8

Q1launcher icon

Q2 Q2 Create an application to accept Movie details like Name, Release Year, Collection and display the same information on the next activity.

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

Slip 9

. Create android application to change Font Size, Color and Font Family of String

Q2 date timepicker

package com.example.myapplication;  
  
import androidx.annotation.RequiresApi;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Build;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.DatePicker;  
import android.widget.TimePicker;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
 TimePicker tp;  
 DatePicker dp;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 tp=(TimePicker)findViewById(R.id.*timePicker*);  
 dp=(DatePicker) findViewById(R.id.*datePicker*);  
  
 }  
  
 @RequiresApi(api = Build.VERSION\_CODES.*M*)  
 public void onClick(View view){  
 Toast.*makeText*(getBaseContext(),"Time Selected"+tp.getHour()+":"+tp.getMinute(),Toast.*LENGTH\_SHORT*).show();  
  
  
 }  
 public void showDate(View view){  
 Toast.*makeText*(getBaseContext(),"Date Selected"+dp.getMonth()+"/"+dp.getDayOfMonth()+"/"+dp.getYear(),Toast.*LENGTH\_SHORT*).show();  
  
 }  
  
}

activity .main

<?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"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Hello World!"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TimePicker  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/timePicker"/>  
  
  
 <Button  
 android:id="@+id/btnset"  
 android:layout\_width="70dp"  
 android:layout\_height="31dp"  
 android:onClick="onClick"  
 tools:layout\_editor\_absoluteX="174dp"  
 tools:layout\_editor\_absoluteY="193dp"/>  
  
 <DatePicker  
 android:layout\_width="wrap\_content"  
 android:layout\_height="250dp"  
 android:id="@+id/datePicker" />  
  
 <Button  
 android:layout\_width="70dp"  
 android:layout\_height="17dp"  
 android:id="@+id/btndp"  
 android:onClick="showDate"  
 tools:layout\_editor\_absoluteX="174dp"  
 tools:layout\_editor\_absoluteY="193dp"/>  
  
  
  
  
  
  
  
</LinearLayout>

Slip 10

Construct an app that toggles a light bulb on and off when the user clicks on toggle button. [10]

Main.java

package com.example.tooglebutton;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Toast;

import android.widget.ToggleButton;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

ToggleButton tb=(ToggleButton)findViewById(R.id.toggle1);

tb.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

if (((ToggleButton)v).isChecked())

{

Toast.makeText(getBaseContext(),"Light is is On", Toast.LENGTH\_LONG).show();

}

else

{

Toast.makeText(getBaseContext(),"Light is Off", Toast.LENGTH\_LONG).show();

}

}

});

}

}

Main.java

<?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"

tools:context=".MainActivity">

<ToggleButton

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/toggle1"/>

</LinearLayout>

Q2 Write a program to perform Zoom In, Zoom Out operation on Google Map

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

Slip 11

Q1 launcher icon

Q2 Create registration form given below. Also perform appropriate validation and display the message

main java

package com.example.email;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

Button btnReg;

EditText edtName,edtEmail,edtPass,edtAge,edtPhone;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

edtName=(EditText) findViewById(R.id.edtName);

edtEmail=(EditText) findViewById(R.id.edtEmail);

edtPass=(EditText) findViewById(R.id.edtPassword);

edtAge=(EditText) findViewById(R.id.edtAge);

edtPhone=(EditText) findViewById(R.id.edtPhone);

btnReg=(Button) findViewById(R.id.button1);

btnReg.setOnClickListener((arg0)->{

if(edtName.getText().toString().length()==0){

edtName.setError("Name not entered");

edtName.requestFocus();

}

if(edtEmail.length()==0){

edtEmail.setError("Email is required");

edtEmail.requestFocus();

}

if(edtPass.length()==0) {

edtPass.setError("pass is required");

edtPass.requestFocus();

}

if(edtAge.length()==0) {

edtAge.setError("Age is required");

edtAge.requestFocus();

}

if(edtPhone.length()>10 || edtPhone.length()<10) {

edtPhone.setError("Mobile number is required");

edtPhone.requestFocus();

}

});

}

}

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:orientation="vertical"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<EditText

android:id="@+id/edtName"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:hint="Name" />

<EditText

android:id="@+id/edtEmail"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="16dp"

android:hint="Email" />

<EditText

android:id="@+id/edtPassword"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Password"

android:inputType="textPassword" />

<EditText

android:id="@+id/edtAge"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="text"

android:hint="Age" />

<EditText

android:id="@+id/edtPhone"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:maxLength="10"

android:hint="Phone"

android:layout\_marginTop="20dp"

android:inputType="" />

<Button

android:id="@+id/button1"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:text="register" />

</LinearLayout>

Q1. Construct an app that toggles a light bulb on and off when the user clicks on toggle button. [10]

Q6 ToggleButton Light on off

Main.java

package com.example.tooglebutton;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Toast;

import android.widget.ToggleButton;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

ToggleButton tb=(ToggleButton)findViewById(R.id.toggle1);

tb.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

if (((ToggleButton)v).isChecked())

{

Toast.makeText(getBaseContext(),"Light is is On", Toast.LENGTH\_LONG).show();

}

else

{

Toast.makeText(getBaseContext(),"Light is Off", Toast.LENGTH\_LONG).show();

}

}

});

}

}

Main.java

<?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"

tools:context=".MainActivity">

<ToggleButton

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/toggle1"/>

</LinearLayout>

Q2 Display 15 images in 2-Dimentional scrolling grid .Information of image selected with position will be displayed using Toast message

main

package com.example.scroll;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.AdapterView;

import android.widget.GridView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

Integer[] imageIDs = {

R.drawable.book,

R.drawable.bubble,

R.drawable.coffee,

R.drawable.cup,

R.drawable.coins1,

R.drawable.education

};

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

GridView gridView = (GridView) findViewById(R.id.gridview);

gridView.setAdapter(new ImageAdapter(this));

gridView.setOnItemClickListener(new AdapterView.OnItemClickListener() {

@Override

public void onItemClick(AdapterView<?> parent, View v, int position, long id) {

Toast.makeText(getBaseContext(),"pic" + (position + 1) + "selected", Toast.LENGTH\_SHORT).show();

}

});

}

}

xml

<?xml version="1.0" encoding="utf-8"?>

<ScrollView 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">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical">

<GridView

android:id="@+id/gridview"

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:numColumns="3"

android:verticalSpacing="10dp"

android:horizontalSpacing="10dp"

android:columnWidth="90dp"

android:stretchMode="columnWidth"

android:gravity="center">

</GridView>

</LinearLayout>

</ScrollView>

ImageAdapter

package com.example.scroll;

import android.content.Context;

import android.view.View;

import android.view.ViewGroup;

import android.widget.BaseAdapter;

import android.widget.GridLayout;

import android.widget.GridView;

import android.widget.ImageView;

import com.example.scroll.R;

public class ImageAdapter extends BaseAdapter {

private Context context;

public ImageAdapter(Context c) {

context = c;

}

@Override

public int getCount() {

return imageIds.length;

}

@Override

public Object getItem(int position) {

return null;

}

@Override

public long getItemId(int position) {

return 0;

}

@Override

public View getView(int position, View convertView, ViewGroup parent) {

ImageView imageView;

if (convertView == null){

imageView = new ImageView(context);

imageView.setLayoutParams(new GridView.LayoutParams(185,185));

imageView.setScaleType(ImageView.ScaleType.CENTER\_CROP);

imageView.setPadding(5,5,5,5);

}else {

imageView = (ImageView) convertView;

}

imageView.setImageResource(imageIds[position]);

return imageView;

}

Integer[] imageIds = {

R.drawable.book,

R.drawable.bubble,

R.drawable.coffee,

R.drawable.cup,

R.drawable.coins1,

R.drawable.education

};

}

+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

Slip 13

Q1. Create android application to change Font Size, Color and Font Family of String. [10]

Q2. Create Application to demonstrate date and time picker.

package com.example.myapplication;  
  
import androidx.annotation.RequiresApi;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Build;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.DatePicker;  
import android.widget.TimePicker;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
 TimePicker tp;  
 DatePicker dp;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 tp=(TimePicker)findViewById(R.id.*timePicker*);  
 dp=(DatePicker) findViewById(R.id.*datePicker*);  
  
 }  
  
 @RequiresApi(api = Build.VERSION\_CODES.*M*)  
 public void onClick(View view){  
 Toast.*makeText*(getBaseContext(),"Time Selected"+tp.getHour()+":"+tp.getMinute(),Toast.*LENGTH\_SHORT*).show();  
  
  
 }  
 public void showDate(View view){  
 Toast.*makeText*(getBaseContext(),"Date Selected"+dp.getMonth()+"/"+dp.getDayOfMonth()+"/"+dp.getYear(),Toast.*LENGTH\_SHORT*).show();  
  
 }  
  
}

activity .main

<?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"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Hello World!"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TimePicker  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/timePicker"/>  
  
  
 <Button  
 android:id="@+id/btnset"  
 android:layout\_width="70dp"  
 android:layout\_height="31dp"  
 android:onClick="onClick"  
 tools:layout\_editor\_absoluteX="174dp"  
 tools:layout\_editor\_absoluteY="193dp"/>  
  
 <DatePicker  
 android:layout\_width="wrap\_content"  
 android:layout\_height="250dp"  
 android:id="@+id/datePicker" />  
  
 <Button  
 android:layout\_width="70dp"  
 android:layout\_height="17dp"  
 android:id="@+id/btndp"  
 android:onClick="showDate"  
 tools:layout\_editor\_absoluteX="174dp"  
 tools:layout\_editor\_absoluteY="193dp"/>  
  
  
  
  
  
  
  
</LinearLayout>

Slip 14

Q1. Create a simple Application which shows Life Cycle of activity [10]

**.JAVA**

package com.example.activitylifecycle;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.support.v7.view.menu.ShowableListMenu;

import android.util.Log;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

String t="event";

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Toast.makeText(getApplicationContext(),"hello all",Toast.LENGTH\_SHORT).show();

}

@Override

protected void onStart() {

super.onStart();

Log.d(t,"on start");

}

protected void onStop(){

super.onStop();

Log.d(t, "on Stop");

}

@Override

protected void onPause() {

super.onPause();

Log.d(t,"on pause");

}

@Override

protected void onResume() {

super.onResume();

Log.d(t, "onResume: ");

}

}

**.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">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello World!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

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

</android.support.constraint.ConstraintLayout>

Q2 Create application to send email

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

Slip 15

1Write a android prog for scroll view

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">

<ScrollView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical" >

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button1"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button2"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button3"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button4"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button5"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button6"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button7"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button8"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button9"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button10"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button11"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button12"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button13"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button14"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button15"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button16"/>

</LinearLayout>

</ScrollView>

</android.support.constraint.ConstraintLayout>

Q2 Write a program to perform Zoom In, Zoom Out operation on Google Map

Slip 16

Design following-add a border to an Android Layout [10]

Main.xml

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout 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:background="#000000"

android:padding="10dp"

tools:context=".MainActivity">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="horizontal"

android:background="@drawable/border">

<TextView

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:gravity="center\_vertical|center\_horizontal"

android:text="HELL"

android:background="#A00000f"

android:textColor="#0fffff"

android:textSize="40dp" />

</LinearLayout>

</RelativeLayout>

Border.xml (go to res folder; create an a new andriod resouce file; and include it in linear layout function has [android:background="@drawable/border"] )

<?xml version="1.0" encoding="utf-8"?>

<shape xmlns:android="http://schemas.android.com/apk/res/android"

android:shape="rectangle">

<stroke

android:width="20dp"

android:color="#fffff"></stroke>

</shape>

Q2. Create Application to demonstrate date and time picker

package com.example.myapplication;  
  
import androidx.annotation.RequiresApi;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Build;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.DatePicker;  
import android.widget.TimePicker;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
 TimePicker tp;  
 DatePicker dp;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 tp=(TimePicker)findViewById(R.id.*timePicker*);  
 dp=(DatePicker) findViewById(R.id.*datePicker*);  
  
 }  
  
 @RequiresApi(api = Build.VERSION\_CODES.*M*)  
 public void onClick(View view){  
 Toast.*makeText*(getBaseContext(),"Time Selected"+tp.getHour()+":"+tp.getMinute(),Toast.*LENGTH\_SHORT*).show();  
  
  
 }  
 public void showDate(View view){  
 Toast.*makeText*(getBaseContext(),"Date Selected"+dp.getMonth()+"/"+dp.getDayOfMonth()+"/"+dp.getYear(),Toast.*LENGTH\_SHORT*).show();  
  
 }  
  
}

activity .main

<?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"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Hello World!"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TimePicker  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/timePicker"/>  
  
  
 <Button  
 android:id="@+id/btnset"  
 android:layout\_width="70dp"  
 android:layout\_height="31dp"  
 android:onClick="onClick"  
 tools:layout\_editor\_absoluteX="174dp"  
 tools:layout\_editor\_absoluteY="193dp"/>  
  
 <DatePicker  
 android:layout\_width="wrap\_content"  
 android:layout\_height="250dp"  
 android:id="@+id/datePicker" />  
  
 <Button  
 android:layout\_width="70dp"  
 android:layout\_height="17dp"  
 android:id="@+id/btndp"  
 android:onClick="showDate"  
 tools:layout\_editor\_absoluteX="174dp"  
 tools:layout\_editor\_absoluteY="193dp"/>  
  
  
  
  
  
  
  
</LinearLayout>

Slip17

Create a custom launcher icon. [10]

Q2. Create First Activity to accept information like Student First Name, Middle Name, Last Name, Date of birth, Address, Email ID and display all information on Second Activity when user click on Submit button. [20] Q3. External Viva

Slip 18

Construct an app that toggles a light bulb on and off when the user clicks on toggle button. [10]

Main.java

package com.example.tooglebutton;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Toast;

import android.widget.ToggleButton;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

ToggleButton tb=(ToggleButton)findViewById(R.id.toggle1);

tb.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

if (((ToggleButton)v).isChecked())

{

Toast.makeText(getBaseContext(),"Light is is On", Toast.LENGTH\_LONG).show();

}

else

{

Toast.makeText(getBaseContext(),"Light is Off", Toast.LENGTH\_LONG).show();

}

}

});

}

}

Main.java

<?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"

tools:context=".MainActivity">

<ToggleButton

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/toggle1"/>

</LinearLayout>

Q2. Create simple application with Login Screen. On successful login, gives message go to next Activity (Without Using Database).

main.java

package com.example.intent;

import androidx.appcompat.app.AppCompatActivity;

import android.content.DialogInterface;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

Button b1;

EditText e1, e2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

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

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

b1= (Button) findViewById(R.id.button1);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String uname = "Admin";

String password = "Admin123";

if ((e1.getText().toString().equals(uname)) && (e2.getText().toString().equals(password))){

Intent intent = new Intent(getApplicationContext(),second.class);

intent.putExtra("SUCCESS","Success");

startActivity(intent);

}

else

{Intent intent = new Intent(getApplicationContext(),second.class);

intent.putExtra("SUCCESS","Invalid");

startActivity(intent);

}}

});

}

}

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">

<EditText

android:id="@+id/edtEmail"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Email"

android:inputType="text"

tools:layout\_editor\_absoluteX="77dp"

tools:layout\_editor\_absoluteY="100dp" />

<EditText

android:id="@+id/edtPass"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Password"

android:inputType="text"

tools:layout\_editor\_absoluteX="84dp"

tools:layout\_editor\_absoluteY="201dp" />

<Button

android:id="@+id/button1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Button" />

</LinearLayout>

second java

package com.example.intent;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.widget.EditText;

import android.widget.TextView;

public class second extends AppCompatActivity {

TextView t1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_second);

setContentView(R.layout.activity\_second);

t1=findViewById(R.id.t1);

Intent intent=getIntent();

String str=intent.getStringExtra("SUCCESS");

t1.setText(str);

}

}

second 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"

tools:context=".second">

<TextView

android:id="@+id/t1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="TextView"

tools:layout\_editor\_absoluteX="125dp"

tools:layout\_editor\_absoluteY="120dp" />

</LinearLayout>

Slip 19

Q1. Create a simple Application which shows Life Cycle of activity [10]

**.JAVA**

package com.example.activitylifecycle;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.support.v7.view.menu.ShowableListMenu;

import android.util.Log;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

String t="event";

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Toast.makeText(getApplicationContext(),"hello all",Toast.LENGTH\_SHORT).show();

}

@Override

protected void onStart() {

super.onStart();

Log.d(t,"on start");

}

protected void onStop(){

super.onStop();

Log.d(t, "on Stop");

}

@Override

protected void onPause() {

super.onPause();

Log.d(t,"on pause");

}

@Override

protected void onResume() {

super.onResume();

Log.d(t, "onResume: ");

}

}

**.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">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello World!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

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

</android.support.constraint.ConstraintLayout>

Q2 Create registration form given below. Also perform appropriate validation and display the message

main java

package com.example.email;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

Button btnReg;

EditText edtName,edtEmail,edtPass,edtAge,edtPhone;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

edtName=(EditText) findViewById(R.id.edtName);

edtEmail=(EditText) findViewById(R.id.edtEmail);

edtPass=(EditText) findViewById(R.id.edtPassword);

edtAge=(EditText) findViewById(R.id.edtAge);

edtPhone=(EditText) findViewById(R.id.edtPhone);

btnReg=(Button) findViewById(R.id.button1);

btnReg.setOnClickListener((arg0)->{

if(edtName.getText().toString().length()==0){

edtName.setError("Name not entered");

edtName.requestFocus();

}

if(edtEmail.length()==0){

edtEmail.setError("Email is required");

edtEmail.requestFocus();

}

if(edtPass.length()==0) {

edtPass.setError("pass is required");

edtPass.requestFocus();

}

if(edtAge.length()==0) {

edtAge.setError("Age is required");

edtAge.requestFocus();

}

if(edtPhone.length()>10 || edtPhone.length()<10) {

edtPhone.setError("Mobile number is required");

edtPhone.requestFocus();

}

});

}

}

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:orientation="vertical"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<EditText

android:id="@+id/edtName"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:hint="Name" />

<EditText

android:id="@+id/edtEmail"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="16dp"

android:hint="Email" />

<EditText

android:id="@+id/edtPassword"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Password"

android:inputType="textPassword" />

<EditText

android:id="@+id/edtAge"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="text"

android:hint="Age" />

<EditText

android:id="@+id/edtPhone"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:maxLength="10"

android:hint="Phone"

android:layout\_marginTop="20dp"

android:inputType="" />

<Button

android:id="@+id/button1"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:text="register" />

</LinearLayout>

Slip 20

Create a simple Application which shows Life Cycle of activity [10]

**.JAVA**

package com.example.activitylifecycle;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.support.v7.view.menu.ShowableListMenu;

import android.util.Log;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

String t="event";

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Toast.makeText(getApplicationContext(),"hello all",Toast.LENGTH\_SHORT).show();

}

@Override

protected void onStart() {

super.onStart();

Log.d(t,"on start");

}

protected void onStop(){

super.onStop();

Log.d(t, "on Stop");

}

@Override

protected void onPause() {

super.onPause();

Log.d(t,"on pause");

}

@Override

protected void onResume() {

super.onResume();

Log.d(t, "onResume: ");

}

}

**.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">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello World!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

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

</android.support.constraint.ConstraintLayout>

2.Create Application to demonstrate date and time picker

package com.example.myapplication;  
  
import androidx.annotation.RequiresApi;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Build;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.DatePicker;  
import android.widget.TimePicker;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
 TimePicker tp;  
 DatePicker dp;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 tp=(TimePicker)findViewById(R.id.*timePicker*);  
 dp=(DatePicker) findViewById(R.id.*datePicker*);  
  
 }  
  
 @RequiresApi(api = Build.VERSION\_CODES.*M*)  
 public void onClick(View view){  
 Toast.*makeText*(getBaseContext(),"Time Selected"+tp.getHour()+":"+tp.getMinute(),Toast.*LENGTH\_SHORT*).show();  
  
  
 }  
 public void showDate(View view){  
 Toast.*makeText*(getBaseContext(),"Date Selected"+dp.getMonth()+"/"+dp.getDayOfMonth()+"/"+dp.getYear(),Toast.*LENGTH\_SHORT*).show();  
  
 }  
  
}

activity .main

<?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"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Hello World!"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TimePicker  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/timePicker"/>  
  
  
 <Button  
 android:id="@+id/btnset"  
 android:layout\_width="70dp"  
 android:layout\_height="31dp"  
 android:onClick="onClick"  
 tools:layout\_editor\_absoluteX="174dp"  
 tools:layout\_editor\_absoluteY="193dp"/>  
  
 <DatePicker  
 android:layout\_width="wrap\_content"  
 android:layout\_height="250dp"  
 android:id="@+id/datePicker" />  
  
 <Button  
 android:layout\_width="70dp"  
 android:layout\_height="17dp"  
 android:id="@+id/btndp"  
 android:onClick="showDate"  
 tools:layout\_editor\_absoluteX="174dp"  
 tools:layout\_editor\_absoluteY="193dp"/>  
  
  
  
  
  
  
  
</LinearLayout>

Slip 21

. Create following Vertical Scroll View Creation in Android [10] Q2. Create a Simple Application

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">

<ScrollView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical" >

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button1"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button2"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button3"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button4"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button5"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button6"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button7"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button8"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button9"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button10"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button11"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button12"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button13"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button14"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button15"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button16"/>

</LinearLayout>

</ScrollView>

</android.support.constraint.ConstraintLayout>

Which Send ―Hello‖ message from one activity to another with help of Button (Use Intent)

**acivity 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">

<EditText

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/t1"

/>

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" />

</LinearLayout>

**MAIN ACTIVITY.JAVA**

package com.example.intenttext;

import android.content.Intent;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

EditText t1;

Button b1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

t1=(EditText) findViewById(R.id.t1);

b1=(Button)findViewById(R.id.b1);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String str= t1.getText().toString();

Intent intent= new Intent(getApplicationContext(),SecondActivity.class);

intent.putExtra("msg\_key", str);

startActivity(intent);

}

});

}

}

**ACITVITYSECOND.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"

tools:context=".SecondActivity">

<TextView

android:id="@+id/t1"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent" />

</LinearLayout>

**SECONDEACTIVITY.JAVA**

package com.example.intenttext;

import android.content.Intent;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.TextView;

public class SecondActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_second);

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

Intent intent= getIntent();

String str= intent.getStringExtra("msg\_key");

msg.setText(str);

}

}

Slip 22

Q1. Create a custom launcher icon. [10]

Q2. Create simple application with Login Screen. On successful login, gives message go to next Activity (Without Using Database).

main.java

package com.example.intent;

import androidx.appcompat.app.AppCompatActivity;

import android.content.DialogInterface;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

Button b1;

EditText e1, e2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

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

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

b1= (Button) findViewById(R.id.button1);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String uname = "Admin";

String password = "Admin123";

if ((e1.getText().toString().equals(uname)) && (e2.getText().toString().equals(password))){

Intent intent = new Intent(getApplicationContext(),second.class);

intent.putExtra("SUCCESS","Success");

startActivity(intent);

}

else

{Intent intent = new Intent(getApplicationContext(),second.class);

intent.putExtra("SUCCESS","Invalid");

startActivity(intent);

}}

});

}

}

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">

<EditText

android:id="@+id/edtEmail"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Email"

android:inputType="text"

tools:layout\_editor\_absoluteX="77dp"

tools:layout\_editor\_absoluteY="100dp" />

<EditText

android:id="@+id/edtPass"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Password"

android:inputType="text"

tools:layout\_editor\_absoluteX="84dp"

tools:layout\_editor\_absoluteY="201dp" />

<Button

android:id="@+id/button1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Button" />

</LinearLayout>

second java

package com.example.intent;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.widget.EditText;

import android.widget.TextView;

public class second extends AppCompatActivity {

TextView t1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_second);

setContentView(R.layout.activity\_second);

t1=findViewById(R.id.t1);

Intent intent=getIntent();

String str=intent.getStringExtra("SUCCESS");

t1.setText(str);

}

}

second 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"

tools:context=".second">

<TextView

android:id="@+id/t1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="TextView"

tools:layout\_editor\_absoluteX="125dp"

tools:layout\_editor\_absoluteY="120dp" />

</LinearLayout>

Slip 23

Create android application to change Font Size, Color and Font Family of String. [10]

Q2 Create registration form given below. Also perform appropriate validation and display the message .

main java

package com.example.email;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

Button btnReg;

EditText edtName,edtEmail,edtPass,edtAge,edtPhone;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

edtName=(EditText) findViewById(R.id.edtName);

edtEmail=(EditText) findViewById(R.id.edtEmail);

edtPass=(EditText) findViewById(R.id.edtPassword);

edtAge=(EditText) findViewById(R.id.edtAge);

edtPhone=(EditText) findViewById(R.id.edtPhone);

btnReg=(Button) findViewById(R.id.button1);

btnReg.setOnClickListener((arg0)->{

if(edtName.getText().toString().length()==0){

edtName.setError("Name not entered");

edtName.requestFocus();

}

if(edtEmail.length()==0){

edtEmail.setError("Email is required");

edtEmail.requestFocus();

}

if(edtPass.length()==0) {

edtPass.setError("pass is required");

edtPass.requestFocus();

}

if(edtAge.length()==0) {

edtAge.setError("Age is required");

edtAge.requestFocus();

}

if(edtPhone.length()>10 || edtPhone.length()<10) {

edtPhone.setError("Mobile number is required");

edtPhone.requestFocus();

}

});

}

}

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:orientation="vertical"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<EditText

android:id="@+id/edtName"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:hint="Name" />

<EditText

android:id="@+id/edtEmail"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="16dp"

android:hint="Email" />

<EditText

android:id="@+id/edtPassword"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Password"

android:inputType="textPassword" />

<EditText

android:id="@+id/edtAge"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="text"

android:hint="Age" />

<EditText

android:id="@+id/edtPhone"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:maxLength="10"

android:hint="Phone"

android:layout\_marginTop="20dp"

android:inputType="" />

<Button

android:id="@+id/button1"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:text="register" />

</LinearLayout>

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

Slip 24

Q1. Create android application to change Font Size, Color and Font Family of String. [10]

Q2 Write a program to perform Zoom In, Zoom Out operation on Google Map..

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

Slip 25

. Create a simple Application which shows Life Cycle of activity [10]

**.JAVA**

package com.example.activitylifecycle;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.support.v7.view.menu.ShowableListMenu;

import android.util.Log;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

String t="event";

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Toast.makeText(getApplicationContext(),"hello all",Toast.LENGTH\_SHORT).show();

}

@Override

protected void onStart() {

super.onStart();

Log.d(t,"on start");

}

protected void onStop(){

super.onStop();

Log.d(t, "on Stop");

}

@Override

protected void onPause() {

super.onPause();

Log.d(t,"on pause");

}

@Override

protected void onResume() {

super.onResume();

Log.d(t, "onResume: ");

}

}

**.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">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello World!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

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

</android.support.constraint.ConstraintLayout>

Q2 Create First Activity to accept information like Student First Name, Middle Name, Last Name, Date of birth, Address, Email ID and display all information on Second Activity when user click on Submit button

+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

Slip 28

Create “Hello World “ Application. That will display “Hello World “ in middle of the Screen in blue color with white background with a border to Android Layout. [10]

Main.xml

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout 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:background="#000000"

android:padding="10dp"

tools:context=".MainActivity">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="horizontal"

android:background="@drawable/border">

<TextView

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:gravity="center\_vertical|center\_horizontal"

android:text="HELL"

android:background="#A00000f"

android:textColor="#0fffff"

android:textSize="40dp" />

</LinearLayout>

</RelativeLayout>

Border.xml (go to res folder; create an a new andriod resouce file; and include it in linear layout function has [android:background="@drawable/border"] )

<?xml version="1.0" encoding="utf-8"?>

<shape xmlns:android="http://schemas.android.com/apk/res/android"

android:shape="rectangle">

<stroke

android:width="20dp"

android:color="#fffff"></stroke>

</shape>

Q2. Create simple application with Login Screen. On successful login, gives message go to next Activity (Without Using Database).

main.java

package com.example.intent;

import androidx.appcompat.app.AppCompatActivity;

import android.content.DialogInterface;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

Button b1;

EditText e1, e2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

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

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

b1= (Button) findViewById(R.id.button1);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String uname = "Admin";

String password = "Admin123";

if ((e1.getText().toString().equals(uname)) && (e2.getText().toString().equals(password))){

Intent intent = new Intent(getApplicationContext(),second.class);

intent.putExtra("SUCCESS","Success");

startActivity(intent);

}

else

{Intent intent = new Intent(getApplicationContext(),second.class);

intent.putExtra("SUCCESS","Invalid");

startActivity(intent);

}}

});

}

}

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">

<EditText

android:id="@+id/edtEmail"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Email"

android:inputType="text"

tools:layout\_editor\_absoluteX="77dp"

tools:layout\_editor\_absoluteY="100dp" />

<EditText

android:id="@+id/edtPass"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Password"

android:inputType="text"

tools:layout\_editor\_absoluteX="84dp"

tools:layout\_editor\_absoluteY="201dp" />

<Button

android:id="@+id/button1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Button" />

</LinearLayout>

second java

package com.example.intent;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.widget.EditText;

import android.widget.TextView;

public class second extends AppCompatActivity {

TextView t1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_second);

setContentView(R.layout.activity\_second);

t1=findViewById(R.id.t1);

Intent intent=getIntent();

String str=intent.getStringExtra("SUCCESS");

t1.setText(str);

}

}

second 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"

tools:context=".second">

<TextView

android:id="@+id/t1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="TextView"

tools:layout\_editor\_absoluteX="125dp"

tools:layout\_editor\_absoluteY="120dp" />

</LinearLayout>

Slip 27

. Create following Vertical Scroll View Creation in Android [10] Q2. Create a Simple Application

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">

<ScrollView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical" >

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button1"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button2"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button3"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button4"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button5"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button6"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button7"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button8"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button9"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button10"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button11"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button12"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button13"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button14"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button15"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Button16"/>

</LinearLayout>

</ScrollView>

</android.support.constraint.ConstraintLayout>

Which Send ―Hello‖ message from one activity to another with help of Button (Use Intent)

**acivity 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">

<EditText

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/t1"

/>

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" />

</LinearLayout>

**MAIN ACTIVITY.JAVA**

package com.example.intenttext;

import android.content.Intent;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

EditText t1;

Button b1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

t1=(EditText) findViewById(R.id.t1);

b1=(Button)findViewById(R.id.b1);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String str= t1.getText().toString();

Intent intent= new Intent(getApplicationContext(),SecondActivity.class);

intent.putExtra("msg\_key", str);

startActivity(intent);

}

});

}

}

**ACITVITYSECOND.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"

tools:context=".SecondActivity">

<TextView

android:id="@+id/t1"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent" />

</LinearLayout>

**SECONDEACTIVITY.JAVA**

package com.example.intenttext;

import android.content.Intent;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.TextView;

public class SecondActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_second);

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

Intent intent= getIntent();

String str= intent.getStringExtra("msg\_key");

msg.setText(str);

}

}

Slip 28

Create a custom launcher icon. [10]

Q2 Create the simple calculator shown below also perform appropriate operation [20]

Activity main

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;

public class MainActivity extends AppCompatActivity {

Button button0 , button1 , button2 , button3 ,button4 , button5 , button6 , button7 , button8 , button9 ,

buttonAdd, buttonSub , buttonDivision , buttonMul , button10 , buttonC , buttonEqual;

EditText edt1;

float mValueOne, mValueTwo;

boolean mAddition, mSubtract, mMultiplication, mDivision;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

button0 = (Button) findViewById(R.id.button0);

button1 = (Button) findViewById(R.id.button1);

button2 = (Button) findViewById(R.id.button2);

button3 = (Button) findViewById(R.id.button3);

button4 = (Button) findViewById(R.id.button4);

button5 = (Button) findViewById(R.id.button5);

button6 = (Button) findViewById(R.id.button6);

button7 = (Button) findViewById(R.id.button7);

button8 = (Button) findViewById(R.id.button8);

button9 = (Button) findViewById(R.id.button9);

button10 = (Button) findViewById(R.id.button10);

buttonAdd = (Button) findViewById(R.id.buttonadd);

buttonSub = (Button) findViewById(R.id.buttonsub);

buttonMul = (Button) findViewById(R.id.buttonmul);

buttonDivision = (Button) findViewById(R.id.buttondiv);

buttonC = (Button) findViewById(R.id.buttonC);

buttonEqual = (Button) findViewById(R.id.buttoneql);

edt1 = (EditText) findViewById(R.id.edt1);

button1.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"1");

}

});

button2.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"2");

}

});

button3.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"3");

}

});

button4.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"4");

}

});

button5.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"5");

}

});

button6.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"6");

}

});

button7.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"7");

}

});

button8.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"8");

}

});

button9.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"9");

}

});

button0.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+"0");

}

});

buttonAdd.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

if(edt1 == null){

edt1.setText("");

}else{

mValueOne = Float.parseFloat(edt1.getText() + "");

mAddition = true;

edt1.setText(null);

}

}

});

buttonSub.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

mValueOne = Float.parseFloat(edt1.getText() + "");

mSubtract = true;

edt1.setText(null);

}

});

buttonSub.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

mValueOne = Float.parseFloat(edt1.getText() + "");

mSubtract = true;

edt1.setText(null);

}

});

buttonMul.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

mValueOne = Float.parseFloat(edt1.getText() + "");

mMultiplication = true;

edt1.setText(null);

}

});

buttonDivision.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

mValueOne = Float.parseFloat(edt1.getText() + "");

mDivision = true;

edt1.setText(null);

}

});

buttonEqual.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

mValueTwo = Float.parseFloat(edt1.getText() + "");

if (mAddition == true){

edt1.setText(mValueOne + mValueTwo + "");

mAddition=false;

}

if (mSubtract == true){

edt1.setText(mValueOne - mValueTwo + "");

mSubtract=false;

}

if (mMultiplication == true){

edt1.setText(mValueOne \* mValueTwo + "");

mMultiplication=false;

}

if (mDivision == true){

edt1.setText(mValueOne / mValueTwo + "");

mDivision=false;

}

}

});

buttonC.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText("");

}

});

button10.setOnClickListener(new View.OnClickListener(){

public void onClick(View V){

edt1.setText(edt1.getText()+".");

}

});

}

}

xml

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout 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/edt1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="" />

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="1"

android:id="@+id/button1"

android:layout\_marginTop="94dp"

android:layout\_below="@+id/edt1"

android:layout\_toStartOf="@+id/button4"

android:layout\_alignRight="@+id/button4"

android:layout\_alignEnd="@+id/button4"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="2"

android:id="@+id/button2"

android:layout\_alignTop="@+id/button1"

android:layout\_toLeftOf="@+id/button3"

android:layout\_toStartOf="@+id/button3"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="3"

android:id="@+id/button3"

android:layout\_alignTop="@+id/button2"

android:layout\_centerHorizontal="true"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="4"

android:id="@+id/button4"

android:layout\_below="@+id/button1"

android:layout\_toLeftOf="@+id/button2" />

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="5"

android:id="@+id/button5"

android:layout\_alignBottom="@+id/button4"

android:layout\_alignLeft="@+id/button2"

android:layout\_alignStart="@+id/button2"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="6"

android:id="@+id/button6"

android:layout\_below="@+id/button3"

android:layout\_alignLeft="@+id/button3"

android:layout\_alignStart="@+id/button3"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="7"

android:id="@+id/button7"

android:layout\_below="@+id/button4"

android:layout\_toLeftOf="@+id/button2" />

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="8"

android:id="@+id/button8"

android:layout\_below="@+id/button5"

android:layout\_alignLeft="@id/button5"

android:layout\_alignStart="@+id/button5"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="9"

android:id="@+id/button9"

android:layout\_below="@id/button6"

android:layout\_alignLeft="@id/button6"

android:layout\_alignStart="@id/button6"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="+"

android:id="@+id/buttonadd"

android:layout\_alignTop="@id/button3"

android:layout\_toRightOf="@id/button3"

android:layout\_marginLeft="46dp"

android:layout\_marginStart="46dp"

android:layout\_alignRight="@id/edt1"

android:layout\_alignEnd="@id/edt1"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="-"

android:id="@+id/buttonsub"

android:layout\_below="@id/buttonadd"

android:layout\_alignLeft="@id/buttonadd"

android:layout\_alignStart="@id/buttonadd"

android:layout\_alignRight="@id/buttonadd"

android:layout\_alignEnd="@id/buttonadd"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="\*"

android:id="@+id/buttonmul"

android:layout\_below="@id/buttonsub"

android:layout\_alignLeft="@id/buttonsub"

android:layout\_alignStart="@id/buttonsub"

android:layout\_alignParentRight="true"

android:layout\_alignParentEnd="true"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="."

android:id="@+id/button10"

android:layout\_below="@id/button7"

android:layout\_toLeftOf="@id/button2"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="="

android:id="@+id/buttoneql"

android:layout\_below="@id/button0"

android:layout\_marginTop="37dp"

android:layout\_alignRight="@id/buttondiv"

android:layout\_alignEnd="@id/buttondiv"

android:layout\_alignLeft="@id/button10"

android:layout\_alignStart="@id/button10"

/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="/"

android:id="@+id/buttondiv"

android:layout\_below="@id/buttonmul"

android:layout\_alignLeft="@id/buttonmul"

android:layout\_alignStart="@id/buttonmul"

android:layout\_alignRight="@id/buttonmul"

android:layout\_alignEnd="@id/buttonmul"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="C"

android:id="@+id/buttonC"

android:layout\_below="@id/button9"

android:layout\_alignLeft="@id/button9"

android:layout\_alignStart="@id/button9"/>

<Button

style="andriod:attr/buttonStyleSmall"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="0"

android:id="@+id/button0"

android:layout\_below="@id/button8"

android:layout\_alignLeft="@id/button8"

android:layout\_alignStart="@id/button8"/>

</RelativeLayout>

Q1. Create a simple Application which shows Life Cycle of activity [10]

**.JAVA**

package com.example.activitylifecycle;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.support.v7.view.menu.ShowableListMenu;

import android.util.Log;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

String t="event";

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Toast.makeText(getApplicationContext(),"hello all",Toast.LENGTH\_SHORT).show();

}

@Override

protected void onStart() {

super.onStart();

Log.d(t,"on start");

}

protected void onStop(){

super.onStop();

Log.d(t, "on Stop");

}

@Override

protected void onPause() {

super.onPause();

Log.d(t,"on pause");

}

@Override

protected void onResume() {

super.onResume();

Log.d(t, "onResume: ");

}

}

Q2 Create application to send email.

Slip 30

Create android application to change Font Size, Color and Font Family of String. [10]

Q2. Create table Company (id, name, address, phno). Create Application for Performing the following operation on the table. i) Insert New Company Details. ii) Show All the Company Details.