**1**

Create an android application that demonstrate alert dialog box. **(10M)**

**XML File:**

<?*xml version*="1.0" *encoding*="utf-8"?>  
  
<LinearLayout *xmlns:android*="http://schemas.android.com/apk/res/android"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="match\_parent"  
 *android:orientation*="vertical"  
 *android:padding*="16dp">  
  
 <Button  
 *android:id*="@+id/show\_alert\_btn"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Show Alert Dialog" />  
  
</LinearLayout>

**Java File:**

*package* com.example.dilogbox;  
  
*import* android.app.AlertDialog;  
*import* android.content.*DialogInterface*;  
*import* android.os.Bundle;  
*import* android.view.View;  
*import* android.widget.Button;  
  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*public class* MainActivity *extends* AppCompatActivity {  
  
 *private* Button showAlertBtn;  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 showAlertBtn = (Button) findViewById(R.id.***show\_alert\_btn***);  
 showAlertBtn.setOnClickListener(*new* View.OnClickListener() {  
 @Override  
 *public void* onClick(View view) {  
 *// create a new alert dialog* AlertDialog.Builder builder = *new* AlertDialog.Builder(MainActivity.*this*);  
 builder.setTitle("Files Required");  
 builder.setMessage("Please select the files you want to use.");  
 builder.setPositiveButton("OK", *new DialogInterface*.OnClickListener() {  
 @Override  
 *public void* onClick(*DialogInterface* dialogInterface, *int* i) {  
 *// do something when the "OK" button is clicked* }  
 });  
 builder.setNegativeButton("Cancel", *new DialogInterface*.OnClickListener() {  
 @Override  
 *public void* onClick(*DialogInterface* dialogInterface, *int* i) {  
 *// do something when the "Cancel" button is clicked* }  
 });  
 *// display the alert dialog* AlertDialog dialog = builder.create();  
 dialog.show();  
 }  
 });  
 }  
}

Create an android application that produce Notification. **(20M)**

**OR**

Create an android application to accept two numbers and find power

And Average. display the result on second activity using context menu. **(20M)**

**Activity.xml**

<?*xml version*="1.0" *encoding*="utf-8"?>  
<LinearLayout *xmlns:android*="http://schemas.android.com/apk/res/android"  
 *android:id*="@+id/main\_layout"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="match\_parent"  
 *android:orientation*="vertical">  
  
 <EditText  
 *android:id*="@+id/editText1"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:hint*="Enter first number"/>  
  
 <EditText  
 *android:id*="@+id/editText2"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:hint*="Enter second number"  
 *android:minHeight*="48dp" />  
  
 <Button  
 *android:id*="@+id/button"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Calculate"/>  
  
</LinearLayout>

**MainActivity.java**

*package* com.example.poweraverage;  
  
*import* android.content.Intent;  
*import* android.os.Bundle;  
*import* android.view.*ContextMenu*;  
*import* android.view.*MenuItem*;  
*import* android.view.View;  
*import* android.widget.Button;  
*import* android.widget.EditText;  
  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*public class* MainActivity *extends* AppCompatActivity {  
  
 *private* EditText editText1, editText2;  
 *private* Button button;  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 editText1 = findViewById(R.id.***editText1***);  
 editText2 = findViewById(R.id.***editText2***);  
 button = findViewById(R.id.***button***);  
  
 button.setOnClickListener(*new* View.OnClickListener() {  
 @Override  
 *public void* onClick(View view) {  
 *double* num1 = Double.*parseDouble*(editText1.getText().toString());  
 *double* num2 = Double.*parseDouble*(editText2.getText().toString());  
  
 *double* power = Math.*pow*(num1, num2);  
 *double* average = (num1 + num2) / 2;  
  
 Intent intent = *new* Intent(MainActivity.*this*, MainActivity2.*class*);  
 intent.putExtra("power", power);  
 intent.putExtra("average", average);  
  
 registerForContextMenu(view);  
 openContextMenu(view);  
 }  
 });  
 }  
  
 @Override  
 *public void* onCreateContextMenu(*ContextMenu* menu, View v, *ContextMenu*.*ContextMenuInfo* menuInfo) {  
 *super*.onCreateContextMenu(menu, v, menuInfo);  
 getMenuInflater().inflate(R.menu.***menu\_context***, menu);  
 }  
  
 @Override  
 *public boolean* onContextItemSelected(*MenuItem* item) {  
 *if* (item.getItemId() == R.id.***result\_item***) {  
 Intent intent = getIntent();  
 intent.setClass(MainActivity.*this*, MainActivity2.*class*);  
 startActivity(intent);  
 *return true*;  
 }  
 *return super*.onContextItemSelected(item);  
 }  
}

**Activity\_main2.xml**

<?*xml version*="1.0" *encoding*="utf-8"?>  
<LinearLayout *xmlns:android*="http://schemas.android.com/apk/res/android"  
 *android:id*="@+id/main\_layout"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="match\_parent"  
 *android:orientation*="vertical">  
  
 <TextView *xmlns:android*="http://schemas.android.com/apk/res/android"  
 *android:id*="@+id/resultTextView"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:textAppearance*="?android:attr/textAppearanceLarge"/>  
  
</LinearLayout>

**MainActivity2.java**

*package* com.example.poweraverage;  
  
*import* android.content.Intent;  
*import* android.os.Bundle;  
*import* android.widget.TextView;  
  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*public class* MainActivity2 *extends* AppCompatActivity {  
  
 *private* TextView resultTextView;  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main2***);  
  
 resultTextView = findViewById(R.id.***resultTextView***);  
  
 Intent intent = getIntent();  
 *double* power = intent.getDoubleExtra("power", 0);  
 *double* average = intent.getDoubleExtra("average", 0);  
  
 String resultText = "Power: " + power + "\n" + "Average: " + average;  
 resultTextView.setText(resultText);  
 }  
}

**Menu\_context.xml** (To Right Click on Res tab>then New >then Android Recourse File Click on that >select values>then select Menu from dropdown list>enter name for your Menu file

e.g.” Menu\_context” >and press OK your “menu\_conetxt .xml” file will generate in res tab then paste this code in This file)

<?*xml version*="1.0" *encoding*="utf-8"?>  
<menu *xmlns:android*="http://schemas.android.com/apk/res/android">  
 <item  
 *android:id*="@+id/result\_item"  
 *android:title*="To Get Power and Average Touch Here"/>  
</menu>

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**2**

Create an android application that on/off the bulb using **toggle button (10M)**

For this program you need to add togglebulb image in drawable folder first

Step to add image in drawable folder:

1.right click on drawable select new

2.go to Vector assest

3.click on Clip art

4.and search toggle\_on/toggle\_off

5.add both images one by one

6.then rename it toggle\_on and toggle\_off which same in MainActivity.java

**Activity.xml**

<?*xml version*="1.0" *encoding*="utf-8"?>  
<RelativeLayout  
 *xmlns:android*="http://schemas.android.com/apk/res/android"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="match\_parent">  
  
 <ImageView  
 *android:id*="@+id/bulbImageView"  
 *android:layout\_width*="200dp"  
 *android:layout\_height*="200dp"  
 *android:src*="@drawable/toggle\_off"  
 *android:layout\_centerInParent*="true"/>  
  
 <ToggleButton  
 *android:id*="@+id/bulbToggleButton"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:textOn*="ON"  
 *android:textOff*="OFF"  
 *android:checked*="false"  
 *android:layout\_below*="@+id/bulbImageView"  
 *android:layout\_centerHorizontal*="true"/>  
  
</RelativeLayout>

**MainActivity.java**

*package* com.example.togglebulb;  
  
*import* android.os.Bundle;  
 *import* android.widget.CompoundButton;  
 *import* android.widget.ImageView;  
 *import* android.widget.ToggleButton;  
  
 *import* androidx.appcompat.app.AppCompatActivity;  
  
*public class* MainActivity *extends* AppCompatActivity {  
  
 *private* ImageView bulbImageView;  
 *private* ToggleButton bulbToggleButton;  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 bulbImageView = findViewById(R.id.***bulbImageView***);  
 bulbToggleButton = findViewById(R.id.***bulbToggleButton***);  
  
 bulbToggleButton.setOnCheckedChangeListener(*new* CompoundButton.OnCheckedChangeListener() {  
 @Override  
 *public void* onCheckedChanged(CompoundButton compoundButton, *boolean* isChecked) {  
 *if* (isChecked) {  
 bulbImageView.setImageResource(R.drawable.***toggle\_on***);   
 } *else* {  
 bulbImageView.setImageResource(R.drawable.***toggle\_off***);  
 }  
 }  
 });  
 }  
}

Screen(membership form) **(20M)**

**Or**

Create an android application to send SMS message, after sending message display the entered text on next activity **(20M)**

**activity\_main.xml:**

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

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

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:paddingBottom="@dimen/activity\_vertical\_margin"

android:paddingLeft="@dimen/activity\_horizontal\_margin"

android:paddingRight="@dimen/activity\_horizontal\_margin"

android:paddingTop="@dimen/activity\_vertical\_margin"

tools:context="MainActivity">

<TextView

android:id="@+id/textView1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Sending SMS Example"

android:layout\_alignParentTop="true"

android:layout\_centerHorizontal="true"

android:textSize="30dp" />

<TextView

android:id="@+id/textView2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="SMS APP "

android:textColor="#ff87ff09"

android:textSize="30dp"

android:layout\_below="@+id/textView1"

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

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

<EditText

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/editText"

android:hint="Enter Phone Number"

android:phoneNumber="true"

android:textColorHint="@color/abc\_primary\_text\_material\_dark"

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

android:layout\_centerHorizontal="true" />

<EditText

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/editText2"

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

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

android:layout\_alignStart="@+id/editText"

android:textColorHint="@color/abc\_primary\_text\_material\_dark"

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

android:layout\_alignEnd="@+id/imageButton"

android:hint="Enter SMS" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Send Sms"

android:id="@+id/btnSendSMS"

android:layout\_below="@+id/editText2"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="48dp" />

</RelativeLayout>

**MainActivity.java**

import android.Manifest;

import android.content.pm.PackageManager;

import android.os.Bundle;

import android.app.Activity;

import android.support.v4.app.ActivityCompat;

import android.support.v4.content.ContextCompat;

import android.telephony.SmsManager;

import android.util.Log;

import android.view.Menu;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class MainActivity extends Activity {

private static final int MY\_PERMISSIONS\_REQUEST\_SEND\_SMS =0 ;

Button sendBtn;

EditText txtphoneNo;

EditText txtMessage;

String phoneNo;

String message;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

sendBtn = (Button) findViewById(R.id.btnSendSMS);

txtphoneNo = (EditText) findViewById(R.id.editText);

txtMessage = (EditText) findViewById(R.id.editText2);

sendBtn.setOnClickListener(new View.OnClickListener() {

public void onClick(View view) {

sendSMSMessage();

}

});

}

protected void sendSMSMessage() {

phoneNo = txtphoneNo.getText().toString();

message = txtMessage.getText().toString();

if (ContextCompat.checkSelfPermission(this,

Manifest.permission.SEND\_SMS)

!= PackageManager.PERMISSION\_GRANTED) {

if (ActivityCompat.shouldShowRequestPermissionRationale(this,

Manifest.permission.SEND\_SMS)) {

} else {

ActivityCompat.requestPermissions(this,

new String[]{Manifest.permission.SEND\_SMS},

MY\_PERMISSIONS\_REQUEST\_SEND\_SMS);

}

}

}

@Override

public void onRequestPermissionsResult(int requestCode,String permissions[], int[] grantResults) {

switch (requestCode) {

case MY\_PERMISSIONS\_REQUEST\_SEND\_SMS: {

if (grantResults.length > 0

&& grantResults[0] == PackageManager.PERMISSION\_GRANTED) {

SmsManager smsManager = SmsManager.getDefault();

smsManager.sendTextMessage(phoneNo, null, message, null, null);

Toast.makeText(getApplicationContext(), "SMS sent.",

Toast.LENGTH\_LONG).show();

} else {

Toast.makeText(getApplicationContext(),

"SMS faild, please try again.", Toast.LENGTH\_LONG).show();

return;

}

}

}

}

}

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

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

package="com.example.smsapp" >

<uses-permission android:name="android.permission.SEND\_SMS" /> //This is important

<application

android:allowBackup="true"

android:icon="@drawable/ic\_launcher"

android:label="@string/app\_name"

android:theme="@style/AppTheme" >

<activity

android:name="com.example.smsapp.MainActivity" android:label="@string/app\_name" >

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

**……………………………………………………………………………………………………….**

**3**

Create an android application to change an image on the screen. **(10M)**

For this Program first of all add three images named as image1 image2 and image3 in drawable folder

**Activity.xml**

<?*xml version*="1.0" *encoding*="utf-8"?>  
<RelativeLayout *xmlns:android*="http://schemas.android.com/apk/res/android"  
 *xmlns:tools*="http://schemas.android.com/tools"  
 *android:layout\_width*="match\_parent" *android:layout\_height*="match\_parent"  
 *tools:context*=".MainActivity">  
  
 <ImageView  
 *android:id*="@+id/imageView"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="match\_parent"  
 *android:src*="@drawable/image1"/>  
  
 <Button  
 *android:id*="@+id/button"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Change Image"  
 *android:layout\_alignParentBottom*="true"  
 *android:layout\_centerHorizontal*="true"  
 *android:onClick*="changeImage"/>  
  
</RelativeLayout>

**MainActvity.xml**

*package* com.example.changeimage;  
  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*import* android.os.Bundle;  
*import* android.view.View;  
*import* android.widget.ImageView;  
  
*public class* MainActivity *extends* AppCompatActivity {  
  
 *private* ImageView imageView;  
 *private int* currentImage = 1;  
 *private int*[] imageResources = { R.drawable.***image1***, R.drawable.***image2***, R.drawable.***image3*** };  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 imageView = findViewById(R.id.***imageView***);  
 }  
  
 *public void* changeImage(View view) {  
 currentImage = (currentImage + 1) % imageResources.length;  
 imageView.setImageResource(imageResources[currentImage]);  
 }  
  
}

Demonstrate option menu ,context menu and popup menu in android.**(20M)**

OR

Demonstrate Array Adapter using List View to display list of Country.**(20M)**

**Activity.xml**

<?*xml version*="1.0" *encoding*="utf-8"?>  
<LinearLayout *xmlns:android*="http://schemas.android.com/apk/res/android"  
 *xmlns:tools*="http://schemas.android.com/tools"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="match\_parent"  
 *android:orientation*="vertical"  
 *tools:context*=".MainActivity">  
  
 <ListView  
 *android:id*="@+id/listView"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="match\_parent" />  
  
</LinearLayout>

**MainActivity.java**

*package* com.example.arrayadapter;  
  
*import* android.os.Bundle;  
*import* android.widget.ArrayAdapter;  
*import* android.widget.ListView;  
  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*public class* MainActivity *extends* AppCompatActivity {  
  
 *private* ListView listView;  
 *private* String[] countries = { "India", "United States", "China", "Japan", "Germany", "France", "Italy", "Canada", "Brazil", "Mexico" };  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 listView = findViewById(R.id.***listView***);  
 ArrayAdapter<String> adapter = *new* ArrayAdapter<>(*this*, android.R.layout.***simple\_list\_item\_1***, countries);  
 listView.setAdapter(adapter);  
 }  
}

**……………………………………………………………………………………………………….**

**4**

Create a simple application which shows Life Cycle of Activity.

{Use log}. **(10M)**

**MainActivity.java**

*package* com.example.lifecycle;  
  
  
  
*import* android.app.Activity;  
*import* android.os.Bundle;  
*import* android.util.Log;  
  
*public class* MainActivity *extends* Activity {  
  
 *private static final* String ***TAG*** = "MainActivity";  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 Log.*d*(***TAG***, "onCreate");  
 }  
  
 @Override  
 *protected void* onStart() {  
 *super*.onStart();  
 Log.*d*(***TAG***, "onStart");  
 }  
  
 @Override  
 *protected void* onResume() {  
 *super*.onResume();  
 Log.*d*(***TAG***, "onResume");  
 }  
  
 @Override  
 *protected void* onPause() {  
 *super*.onPause();  
 Log.*d*(***TAG***, "onPause");  
 }  
  
 @Override  
 *protected void* onStop() {  
 *super*.onStop();  
 Log.*d*(***TAG***, "onStop");  
 }  
  
 @Override  
 *protected void* onDestroy() {  
 *super*.onDestroy();  
 Log.*d*(***TAG***, "onDestroy");  
 }  
}

Create the following layout which is changing android spinner text size with styles. **(20M)**

OR

Create an android application to send email. **(20M)**

**Activity.xml**

<?*xml version*="1.0" *encoding*="utf-8"?>  
<LinearLayout  
 *xmlns:android*="http://schemas.android.com/apk/res/android"  
 *xmlns:tools*="http://schemas.android.com/tools"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:orientation*="vertical"  
 *android:padding*="4dp"  
 *tools:context*=".MainActivity">  
  
 <EditText  
 *android:id*="@+id/etTo"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:layout\_margin*="5dp"  
 *android:hint*="Receiver's Email Address!"  
 *android:inputType*="textEmailAddress"  
 *android:minHeight*="48dp"  
 *android:singleLine*="true" />  
  
 <EditText  
 *android:id*="@+id/etSubject"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:layout\_margin*="5dp"  
 *android:hint*="Enter Subject"  
 *android:minHeight*="48dp"  
 *android:singleLine*="true" />  
 <EditText  
 *android:id*="@+id/etMessage"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="200dp"  
 *android:layout\_margin*="5dp"  
 *android:gravity*="top|start"  
 *android:hint*="Compose Email"  
 *android:inputType*="textMultiLine" />  
 <RelativeLayout  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content">  
 <Button  
 *android:id*="@+id/btSend"  
 *android:layout\_width*="80dp"  
 *android:layout\_height*="50dp"  
 *android:layout\_margin*="5dp"  
 *android:text*="Send" />  
 <Button  
 *android:id*="@+id/btAttachment"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:layout\_alignParentEnd*="true"  
 *android:text*="attachment"  
 *android:layout\_alignParentRight*="true" />  
 </RelativeLayout>  
 <TextView  
 *android:id*="@+id/tvAttachment"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:drawableStart*="@drawable/ic\_attach"  
 *android:visibility*="gone"  
 *android:drawableLeft*="@drawable/ic\_attach" />  
</LinearLayout>

**MainActivity.java**

*package* com.example.email;  
  
*import* android.app.Activity;  
*import* android.content.Intent;  
*import* android.net.Uri;  
*import* android.os.Bundle;  
*import* android.view.View;  
*import* android.widget.Button;  
*import* android.widget.EditText;  
*import* android.widget.TextView;  
*import* android.widget.Toast;  
  
*public class* MainActivity *extends* Activity {  
 EditText etEmail;  
 EditText etSubject;  
 EditText etMessage;  
 Button Send;  
 Button attachment;  
 TextView tvAttachment;  
 String email;  
 String subject;  
 String message;  
 Uri URI = *null*;  
 *private static final int* ***PICK\_FROM\_GALLERY*** = 101;  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);etEmail = findViewById(R.id.***etTo***);  
 etSubject = findViewById(R.id.***etSubject***);  
 etMessage = findViewById(R.id.***etMessage***);  
 attachment = findViewById(R.id.***btAttachment***);  
 tvAttachment = findViewById(R.id.***tvAttachment***);  
 Send = findViewById(R.id.***btSend***);  
 Send.setOnClickListener(*new* View.OnClickListener() {  
 @Override  
 *public void* onClick(View v) {  
 sendEmail();  
 }  
 });  
 *//attachment button listener* attachment.setOnClickListener(*new* View.OnClickListener() {  
 @Override  
 *public void* onClick(View v) {  
 openFolder();  
 }  
 });  
 }  
 *protected void* onActivityResult(*int* requestCode, *int* resultCode, Intent data) {  
 *if* (requestCode == ***PICK\_FROM\_GALLERY*** && resultCode == ***RESULT\_OK***) {  
 URI = data.getData();  
 tvAttachment.setText(URI.getLastPathSegment());  
 tvAttachment.setVisibility(View.***VISIBLE***);  
 }  
 }  
 *public void* sendEmail() {  
 *try* {  
 email = etEmail.getText().toString();  
 subject = etSubject.getText().toString();  
 message = etMessage.getText().toString();  
 *final* Intent emailIntent = *new* Intent(android.content.Intent.***ACTION\_SEND***);  
 emailIntent.setType("plain/text");  
 emailIntent.putExtra(android.content.Intent.***EXTRA\_EMAIL***, *new* String[]{email});  
 emailIntent.putExtra(android.content.Intent.***EXTRA\_SUBJECT***, subject);  
 *if* (URI != *null*) {  
 emailIntent.putExtra(Intent.***EXTRA\_STREAM***, URI);  
 }  
 emailIntent.putExtra(android.content.Intent.***EXTRA\_TEXT***, message);  
 *this*.startActivity(Intent.*createChooser*(emailIntent, "Sending email..."));  
 } *catch* (Throwable t) {  
 Toast.*makeText*(*this*, "Request failed try again: "+ t.toString(), Toast.***LENGTH\_LONG***).show();  
 }  
 }  
 *public void* openFolder() {  
 Intent intent = *new* Intent();  
 intent.setType("image/\*");  
 intent.setAction(Intent.***ACTION\_GET\_CONTENT***);  
 intent.putExtra("return-data", *true*);  
 startActivityForResult(Intent.*createChooser*(intent, "Complete action using"), ***PICK\_FROM\_GALLERY***);  
 }  
}

**Mainifest.java**

<?*xml version*="1.0" *encoding*="utf-8"?>  
<manifest *xmlns:android*="http://schemas.android.com/apk/res/android"  
 *xmlns:tools*="http://schemas.android.com/tools"  
 *package*="com.example.email">  
 <uses-permission *android:name*="android.permission.INTERNET" />  
 <uses-permission *android:name*="android.permission.READ\_EXTERNAL\_STORAGE" />  
 <uses-permission *android:name*="android.permission.READ\_INTERNAL\_STORAGE" />  
 <uses-permission *android:name*="android.permission.ACCESS\_NETWORK\_STATE" />  
 >  
  
 <application  
 *android:allowBackup*="true"  
 *android:dataExtractionRules*="@xml/data\_extraction\_rules"  
 *android:fullBackupContent*="@xml/backup\_rules"  
 *android:icon*="@mipmap/ic\_launcher"  
 *android:label*="@string/app\_name"  
 *android:supportsRtl*="true"  
 *android:theme*="@style/Theme.Email"  
 *tools:targetApi*="31">  
 <activity  
 *android:name*=".MainActivity"  
 *android:exported*="true">  
 <intent-filter>  
 <action *android:name*="android.intent.action.MAIN" />  
  
 <category *android:name*="android.intent.category.LAUNCHER" />  
 </intent-filter>  
 </activity>  
 </application>  
  
</manifest>

…………………………………………………………………………………………………………

5

Design the following -add border to an Android Layout.**(10M)**

**Activity.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">  
  
 <LinearLayout  
 *android:orientation*="horizontal"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="match\_parent"  
 *android:background*="@drawable/line">  
  
 <TextView  
 *android:layout\_width*="fill\_parent"  
 *android:layout\_height*="fill\_parent"  
 *android:text*="Hello World!"  
 *android:background*="#A00000FF"  
 *android:gravity*="center\_vertical|center\_horizontal"  
 *android:textColor*="#ffffff"  
 *android:textSize*="40sp" />  
 </LinearLayout>  
  
</RelativeLayout>

**Line.xml**

<?*xml version*="1.0" *encoding*="utf-8"?>  
<shape *xmlns:android*="http://schemas.android.com/apk/res/android" *android:shape*="rectangle">  
 <corners *android:radius*="20dp"/>  
 <padding *android:left*="20dp" *android:right*="20dp" *android:top*="20dp" *android:bottom*="20dp"/>  
 <solid *android:color*="#CCCCCC"/>  
</shape>

Create an android application with Login Screen On Successful login, gives message to next Activity (without using database). **(20M)**

**Activity.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">  
  
 <TextView  
 *android:id*="@+id/textView"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Login"  
 *android:layout\_marginTop*="80dp"  
 *android:layout\_gravity*="center"  
 *android:textAppearance*="?android:attr/textAppearanceLarge" />  
  
  
  
 <LinearLayout  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:orientation*="vertical"  
 *android:layout\_marginTop*="50dp"  
 *android:background*="#9DA7D0" >  
  
 <EditText  
 *android:id*="@+id/uname"  
 *android:layout\_width*="250dp"  
 *android:layout\_height*="48dp"  
 *android:layout\_gravity*="center"  
 *android:layout\_marginTop*="40dp"  
 *android:background*="#ffffff"  
 *android:hint*="username...">  
  
 </EditText>  
  
 <EditText  
 *android:id*="@+id/pwd"  
 *android:layout\_width*="250dp"  
 *android:layout\_height*="48dp"  
 *android:layout\_gravity*="center"  
 *android:layout\_marginTop*="10dp"  
 *android:layout\_marginBottom*="20dp"  
 *android:background*="#ffffff"  
 *android:hint*="password..."  
 *android:inputType*="textPassword">  
  
 </EditText>  
  
 <LinearLayout  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:orientation*="horizontal"  
 *android:layout\_marginTop*="10dp"  
 *android:layout\_marginBottom*="20dp"  
 *android:gravity*="center" >  
  
 <Button  
 *android:id*="@+id/loginbtn"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Login" />  
  
 <Button  
 *android:id*="@+id/clrbtn"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Clear" />  
 </LinearLayout>  
  
 <TextView  
 *android:id*="@+id/textView1"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:textColor*="#ffffff"  
 *android:textSize*="20dp"  
 *android:text*=" Username = androidcoding \n Password = androidcoding" />  
  
 </LinearLayout>  
  
</LinearLayout>

**MainActivity.java**

*package* com.example.loginscreen;  
  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*import* android.content.Intent;  
*import* android.os.Bundle;  
*import* android.view.View;  
*import* android.widget.Button;  
*import* android.widget.EditText;  
*import* android.widget.Toast;  
  
*public class* MainActivity *extends* AppCompatActivity {  
  
 Button loginbtn, clrbtn;  
 EditText uname, pwd;  
 String getuname, getpwd;  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 loginbtn = (Button) findViewById(R.id.***loginbtn***);  
 clrbtn = (Button) findViewById(R.id.***clrbtn***);  
  
 uname = (EditText) findViewById(R.id.***uname***);  
 pwd = (EditText) findViewById(R.id.***pwd***);  
  
  
 loginbtn.setOnClickListener(*new* View.OnClickListener() {  
  
 *public void* onClick(View v) {  
  
 getuname = uname.getText().toString();  
 getpwd = pwd.getText().toString();  
  
 *if* (getuname.matches("androidcoding") && getpwd.matches("androidcoding")) {  
  
 Intent i = *new* Intent(MainActivity.*this*, MainActivity2.*class*);  
 startActivity(i);  
 } *else* {  
  
 Toast.*makeText*(MainActivity.*this*,  
 "enter correct username & password", Toast.***LENGTH\_LONG***).show();  
  
 }  
  
 }  
 });  
  
 clrbtn.setOnClickListener(*new* View.OnClickListener() {  
  
 *public void* onClick(View v) {  
  
 uname.setText("");  
 pwd.setText("");  
  
 }  
 });  
  
 }  
}

**Activity\_Main2.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*=".HomeScreen">  
 <TextView  
 *android:id*="@+id/textwelcome"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Welcome"  
 *android:layout\_marginTop*="80dp"  
 *android:layout\_gravity*="center"  
 *android:textAppearance*="?android:attr/textAppearanceLarge" />  
  
 <TextView  
 *android:id*="@+id/loggedin"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="You have successfully logged in"  
 *android:layout\_marginTop*="80dp"  
 *android:layout\_marginLeft*="20dp"  
 *android:layout\_marginRight*="20dp"  
 *android:gravity*="center"  
 *android:layout\_gravity*="center"  
 *android:textAppearance*="?android:attr/textAppearanceLarge" />  
  
 <Button  
 *android:id*="@+id/logoutbtn"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Logout"  
 *android:layout\_marginTop*="80dp"  
 *android:layout\_gravity*="center" />  
  
</LinearLayout>

**MainActivity2.java**

*package* com.example.loginscreen;  
  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*import* android.content.Intent;  
*import* android.os.Bundle;  
*import* android.view.View;  
*import* android.widget.Button;  
  
*public class* MainActivity2 *extends* AppCompatActivity {  
 Button logout;  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main2***);  
 logout = (Button) findViewById(R.id.***logoutbtn***);  
  
 logout.setOnClickListener(*new* View.OnClickListener() {  
  
 *public void* onClick(View v) {  
  
 Intent i = *new* Intent(MainActivity2.*this*, MainActivity.*class*);  
 startActivity(i);  
  
 }  
 });  
 }  
}

**OR**

Create First Activity to accept information like Employee First Name, Middle Name, LastName, Salary, Address, Email ID and display all information on Second Activity when user click on Submit button**.(20M)**

**……………………………………………………………………………………………………….**

**6**

Q. Create an Android App, it reads the Students Details (Name, Surname, Class, Gender, Hobbies Marko) and display the all information in another activity in table format on click of Submit button **[10 Marks]**

Q Create an Android Application that Demonstrate TimePicker and display Selected Time on TextView **[20 Macks]**

**OR**

Q. Create a Simple calculator **[20 Marks]**

**……………………………………………………………………………………………………….**

**7**

Q Write an android code to make phone call using Intent **[10 Marks]** Q Create an android application that demonstrate Spinner**[20 Marks]**

**OR**

Q. Construct an Android Application to accept a number and calculate Factorial and Sum of Digits of a given number using Context Menu **[20 Marks]**

**……………………………………………………………………………………………………….**

**8**

Create a Simple Application which shows the Life Cycle of Activity. **[10 Marks]**

Create an Android application to demonstrate Progress Dialog Boxing AsyncTask**. [20 Marks]**

**OR**

Create an Android Application that demonstrate DatePicker and DatePickerDailog. **[20 Marks]**

…………………………………………………………………………………………………………

**9**

Create a Simple Application, which reads a positive number from the user and display its factorial value in another activity. [10 Marks]

Create an Android application that plays an audio (song) in the background. Audio will not be stopped even if you switch to another activity. To stop the audio, you need to stop the service.(20 Marks)

OR

Create an Android Application to display satellite view of current location using Google Map [20 Marks]

…………………………………………………………………………………………………………..

**10**

Create an Android Application that will change color of the College Name on click of PushButton and change the font size, font style of text view using xml.**[10 Marks]**

Create an Android Application to find the factorial of a number and Display the Resulton alert box.**[20 Marks]**

**OR**

Create an Android App, it reads the Students Details (Name, Surname, Class, Gender, Hobbies, Marks) and display the all information in another activity in table format on click of Submit button **(20 Marks)**

…………………………………………………………………………………………………………..

**11**

Create a Simple Application, that performs Arithmetic Operations (Use constraintLayout). **(10 Marks)**

Create an Android Application that sends the Notification on click of the button and displays the notification message on the second activity **[20 Marks)**

**OR**

Create an android Application for performing the following operation on the table

Customer (id, name, address, phno). (use SQLite database)

1) Insert New Customer Details

ii) Show All the Customer Details on Toast Message **[20 Marks]**

…………………………………………………………………………………………………………

**12**

Create an Android Application to accept two numbers and find power and Average: Display the result on the next activity on Button click

**[10 Marks]**

Q. Create an Android application that creates a custom Alert Dialog containing Friends Name and onClick of Friend Name Button greet accordingly. **[20 Marks]**

**OR**

Q. Create an Android Application to perform Zoom In, Zoom Out operation and display Satellite view, on Google Map.**[20 Marks]**

……………………………………………………………………………………………………….

**13**

Q Create a Simple Application Which Send-Hello! message from one activity to another with help of Button (Use Intent). **[10 Marks]**

**Main.xml**

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

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android" android:orientation="vertical"

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:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/textBox" android:hint="Enter Your Message"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/passButton"

android:text="Pass"/>

</LinearLayout>

**activity\_main2.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=".MainActivity2">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:text=""

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

</LinearLayout>

**MainActivity.java**

package com.example.slipap1;

import androidx.appcompat.app.AppCompatActivity;

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 {

EditText textBox;

Button passButton;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

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

passButton = (Button)findViewById(R.id.passButton); passButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

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

Intent intent = new Intent(getApplicationContext(), MainActivity2.class); intent.putExtra("message", str);

startActivity(intent);

}

});

}

}

**MainActivity2.java**

package com.example.slipap1;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.widget.TextView;

public class MainActivity2 extends AppCompatActivity {

TextView text;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main2);

text = (TextView)findViewById(R.id.text);

Intent Intent = getIntent();

String str = Intent.getStringExtra("message");

text.setText(str);

}

}

Create an Android Application that Demonstrates ListView and Onclick of Lid Display the Toast **[20 Marks]**

**OR**

Create an Android application to perform following operations on table Student (Sid,Sname phno). Use autoincrement for Sid and Perform following Operations.

a) Add Student and display its information

b) Delete Student **[20 Marks]**

………………………………………………………………………………………………………….

**14**

Create an Android Application that Demonstrate Radio Button

**[10 Marks]**

Q Create an Android application to demonstrate phone call using Implicit Intent **[20 Marks]**

OR

Q. Write an android code to turn ON/OFF the Wi-Fi. **[20 Marks]**

………………………………………………………………………………………………………….

**15**

Create an Android App with Login Screen. (Without Using Databuse& use Table Layout) On successful login, gives message go to next Activity **[10 Marks]**

Q. Create an android application to demonstrate how to use a service to download a file from the Internet on click of Download Button. Once done, the service notifies the activity via a broadcast

receiver that the download is complete**.[20 Marks]**

OR

Q. Create application to send email with attachment.**[20 Marks]**

…………………………………………………………………………………………………………..

**16**

Q Write an Android application to accept two numbers from the user, and display them, but reject input if both numbers are greater than 10 and asks for two new numbers **[10 Marks]**

Write a program to find the specific location of an Android device and display details of the place like Address line, city with Geocoding .

**(20 Marks)**

**OR**

Q Create table Company (id, name, address, phno). Create Application for Performing the

following operation on the table

a) Insert New Company details

b) Show All Company details **[20 Marks]**

**…………………………………………………………………………………………………….**

**17**

Create an Android Application that Demonstrate Switch and Toggle Button **(10 Marks]**

**Main.xml**

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

<LinearLayout

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

xmlns:tools="http://schemas.android.com/tools"

android:orientation="vertical"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:padding="16dp"

tools:context=".MainActivity">

<TextView

android:id="@+id/switch\_text\_view"

android:text="Switch: OFF"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textSize="24sp"

android:gravity="center"/>

<Switch

android:id="@+id/switch\_button"

android:layout\_width="match\_parent"

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

<TextView

android:id="@+id/toggle\_text\_view"

android:text="Toggle: OFF"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textSize="24sp"

android:gravity="center"/>

<ToggleButton

android:id="@+id/toggle\_button"

android:textOn="ON"

android:textOff="OFF"

android:layout\_width="match\_parent"

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

</LinearLayout>

**Main.java**

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.CompoundButton;

import android.widget.Switch;

import android.widget.TextView;

import android.widget.ToggleButton;

public class MainActivity extends AppCompatActivity {

private TextView switchTextView, toggleTextView;

private Switch switchButton;

private ToggleButton toggleButton;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

switchTextView = findViewById(R.id.switch\_text\_view);

switchButton = findViewById(R.id.switch\_button);

toggleTextView = findViewById(R.id.toggle\_text\_view);

toggleButton = findViewById(R.id.toggle\_button);

switchButton.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {

@Override

public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {

if (isChecked) {

switchTextView.setText("Switch: ON");

} else {

switchTextView.setText("Switch: OFF");

}

}

});

toggleButton.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {

@Override

public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {

if (isChecked) {

toggleTextView.setText("Toggle: ON");

} else {

toggleTextView.setText("Toggle: OFF");

}

}

});

}

}

Q. Create a fragment that has its own UI and enable your activities to

communicate with fragments. **(20 Marks)**

**OR**

Q. Demonstrate Array Adapter using List View to display list of fruits

**[20 Marks]**

**Main.xml**

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

<LinearLayout

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

android:orientation="vertical"

android:layout\_width="match\_parent"

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

<ListView

android:id="@+id/list\_view\_fruits"

android:layout\_width="match\_parent"

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

</LinearLayout>

**Main.java**

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.ArrayAdapter;

import android.widget.ListView;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

ListView listView = findViewById(R.id.list\_view\_fruits);

// Define an array of fruits

String[] fruits = {"Apple", "Banana", "Cherry", "Dragonfruit", "Elderberry", "Fig", "Grape"};

// Create an ArrayAdapter to convert the array into views for the ListView

ArrayAdapter<String> adapter = new ArrayAdapter<>(this, android.R.layout.simple\_list\_item\_1, fruits);

// Set the adapter to the ListView

listView.setAdapter(adapter);

}

}

…………………………………………………………………………………………………………

**18**

Q create android application to change Font Size, Color and Font Family of String **[10 Marks]**

Q. 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 the Submit button **[20 Marks]**

**Main.xml**

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:padding="16dp">

<EditText

android:id="@+id/et\_first\_name"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="First Name"/>

<EditText

android:id="@+id/et\_middle\_name"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Middle Name"/>

<EditText

android:id="@+id/et\_last\_name"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Last Name"/>

<EditText

android:id="@+id/et\_dob"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Date of Birth (MM/DD/YYYY)"/>

<EditText

android:id="@+id/et\_address"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Address"/>

<EditText

android:id="@+id/et\_email"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Email ID"/>

<Button

android:id="@+id/btn\_submit"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Submit"/>

</LinearLayout>

**Main.java**

package com.example.loginform;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

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 {

EditText etFirstName, etMiddleName, etLastName, etDob, etAddress, etEmail;

Button btnSubmit;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

etFirstName = findViewById(R.id.et\_first\_name);

etMiddleName = findViewById(R.id.et\_middle\_name);

etLastName = findViewById(R.id.et\_last\_name);

etDob = findViewById(R.id.et\_dob);

etAddress = findViewById(R.id.et\_address);

etEmail = findViewById(R.id.et\_email);

btnSubmit = findViewById(R.id.btn\_submit);

btnSubmit.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String firstName = etFirstName.getText().toString().trim();

String middleName = etMiddleName.getText().toString().trim();

String lastName = etLastName.getText().toString().trim();

String dob = etDob.getText().toString().trim();

String address = etAddress.getText().toString().trim();

String email = etEmail.getText().toString().trim();

Intent intent = new Intent(MainActivity.this,MainActivity2.class);

intent.putExtra("FIRST\_NAME", firstName);

intent.putExtra("MIDDLE\_NAME", middleName);

intent.putExtra("LAST\_NAME", lastName);

intent.putExtra("DOB", dob);

intent.putExtra("ADDRESS", address);

intent.putExtra("EMAIL", email);

startActivity(intent);

}

});

}

}

**Activity\_main2.xml**

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:padding="16dp">

<TextView

android:id="@+id/tv\_display\_name"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textStyle="bold"

android:textSize="20sp"

android:layout\_marginBottom="16dp"/>

<TextView

android:id="@+id/tv\_display\_dob"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textStyle="bold"

android:textSize="20sp"

android:layout\_marginBottom="16dp"/>

<TextView

android:id="@+id/tv\_display\_address"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textStyle="bold"

android:textSize="20sp"

android:layout\_marginBottom="16dp"/>

<TextView

android:id="@+id/tv\_display\_email"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textStyle="bold"

android:textSize="20sp"/>

</LinearLayout>

**Activity\_main2.java**

package com.example.loginform;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.content.Intent;

import android.os.Bundle;

import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity2 extends AppCompatActivity {

TextView tvDisplayName, tvDisplayDob, tvDisplayAddress, tvDisplayEmail;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main2);

tvDisplayName = findViewById(R.id.tv\_display\_name);

tvDisplayDob = findViewById(R.id.tv\_display\_dob);

tvDisplayAddress = findViewById(R.id.tv\_display\_address);

tvDisplayEmail = findViewById(R.id.tv\_display\_email);

Intent intent = getIntent();

String firstName = intent.getStringExtra("FIRST\_NAME");

String middleName = intent.getStringExtra("MIDDLE\_NAME");

String lastName = intent.getStringExtra("LAST\_NAME");

String dob = intent.getStringExtra("DOB");

String address = intent.getStringExtra("ADDRESS");

String email = intent.getStringExtra("EMAIL");

String fullName = firstName + " " + middleName + " " + lastName;

tvDisplayName.setText(fullName);

tvDisplayDob.setText(dob);

tvDisplayAddress.setText(address);

tvDisplayEmail.setText(email);

}

}

**OR**

Q. Create new contact for designing following layout.**(20 Marks)**

…………………………………………………………………………………………………………..

**19**

Q. Create a Simple Application Which Send Hi message from one activity to another with help of Button (Use Intent) [**10 Marks**]

**activity\_main.xml**

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

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android" android:orientation="vertical"

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:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/textBox" android:hint="Enter Your Message"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/passButton"

android:text="Pass"/>

</LinearLayout>

**activity\_main2.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=".MainActivity2">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:text=""

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

</LinearLayout>

**MainActivity.java**

package com.example.slipap1;

import androidx.appcompat.app.AppCompatActivity;

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 {

EditText textBox;

Button passButton;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

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

passButton = (Button)findViewById(R.id.passButton); passButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

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

Intent intent = new Intent(getApplicationContext(), MainActivity2.class); intent.putExtra("message", str);

startActivity(intent);

}

});

}

}

**MainActivity2.java**

package com.example.slipap1;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.widget.TextView;

public class MainActivity2 extends AppCompatActivity {

TextView text;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main2);

text = (TextView)findViewById(R.id.text);

Intent Intent = getIntent();

String str = Intent.getStringExtra("message");

text.setText(str);

}

}

Q Create a custom "Contact" layout to hold multiple pieces of information, including: Photo, Name, Contact Number, E-mail id.

**[20 Marks]**

**OR**

Q. Create an application to demonstrate date and time picker

**[20 Marks]**

**Main.xml**

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<TextView

android:id="@+id/textView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Date time Picker Demo!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintHorizontal\_bias="0.526"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.092" />

<EditText

android:id="@+id/in\_date"

android:layout\_width="201dp"

android:layout\_height="91dp"

android:layout\_alignParentStart="true"

android:layout\_alignParentLeft="true"

android:layout\_alignParentTop="true"

android:layout\_marginBottom="32dp"

app:layout\_constraintBottom\_toTopOf="@+id/btn\_time"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.49"

app:layout\_constraintStart\_toStartOf="parent"

tools:ignore="SpeakableTextPresentCheck" />

<Button

android:id="@+id/btn\_date"

android:layout\_width="196dp"

android:layout\_height="85dp"

android:layout\_alignBottom="@+id/in\_date"

android:layout\_toEndOf="@+id/in\_date"

android:layout\_toRightOf="@+id/in\_date"

android:text="SELECT DATE"

app:layout\_constraintBottom\_toTopOf="@+id/in\_date"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.497"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.6" />

<EditText

android:id="@+id/in\_time"

android:layout\_width="198dp"

android:layout\_height="72dp"

android:layout\_below="@+id/in\_date"

android:layout\_alignParentStart="true"

android:layout\_alignParentLeft="true"

android:layout\_marginBottom="132dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.483"

app:layout\_constraintStart\_toStartOf="parent"

tools:ignore="SpeakableTextPresentCheck" />

<Button

android:id="@+id/btn\_time"

android:layout\_width="168dp"

android:layout\_height="76dp"

android:layout\_below="@+id/btn\_date"

android:layout\_alignStart="@+id/btn\_date"

android:layout\_alignLeft="@+id/btn\_date"

android:layout\_marginBottom="48dp"

android:text="SELECT TIME" app:layout\_constraintBottom\_toTopOf="@+id/in\_time"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.497"

app:layout\_constraintStart\_toStartOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

**Main.java**

package com.example.datetime;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.app.Activity;

import android.app.TimePickerDialog;

import android.app.DatePickerDialog;

import android.view.View;

import android.view.Menu;

import android.view.MenuItem;

import android.view.View;

import android.widget.Button;

import android.widget.DatePicker;

import android.widget.EditText;

import android.widget.TimePicker;

import java.util.Calendar;

public class MainActivity extends Activity implements View.OnClickListener {

Button btnDatePicker, btnTimePicker; EditText txtDate, txtTime;

private int mYear, mMonth, mDay, mHour, mMinute;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

btnDatePicker = (Button)findViewById(R.id.btn\_date);

btnTimePicker=(Button)findViewById(R.id.btn\_time);

txtDate=(EditText)findViewById(R.id.in\_date);

txtTime=(EditText)findViewById(R.id.in\_time);

btnDatePicker.setOnClickListener(this);

btnTimePicker.setOnClickListener(this);

}

@Override

public void onClick(View v) {

if (v == btnDatePicker) { // Get Current Date

final Calendar c = Calendar.getInstance();

mYear = c.get(Calendar.YEAR);

mMonth = c.get(Calendar.MONTH);

mDay = c.get(Calendar.DAY\_OF\_MONTH);

DatePickerDialog datePickerDialog = new DatePickerDialog(this, new DatePickerDialog.OnDateSetListener() {

@Override

public void onDateSet(DatePicker view, int year, int monthOfYear, int dayOfMonth) {

txtDate.setText(dayOfMonth + "-" + (monthOfYear + 1) + "-" + year);

}

}, mYear, mMonth, mDay);

datePickerDialog.show();

} if (v == btnTimePicker) {

final Calendar c = Calendar.getInstance();

mHour = c.get(Calendar.HOUR\_OF\_DAY);

mMinute = c.get(Calendar.MINUTE);

TimePickerDialog timePickerDialog = new TimePickerDialog(this, new TimePickerDialog.OnTimeSetListener() {

@Override

public void onTimeSet(TimePicker view, int hourOfDay, int minute) {

txtTime.setText(hourOfDay + ":" + minute);

}

}, mHour, mMinute, false);

timePickerDialog.show();

}

}

}

**Menifest.xml**

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

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

xmlns:tools="http://schemas.android.com/tools">

<application

android:allowBackup="true"

android:dataExtractionRules="@xml/data\_extraction\_rules"

android:fullBackupContent="@xml/backup\_rules"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:supportsRtl="true"

android:theme="@style/Theme.Datetime"

tools:targetApi="31">

<activity

android:name=".MainActivity"

android:exported="true">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

………………………………………………………………………………………………………….

**20**

Q. Create following Vertical Scroll View Creation in Android.

**[10 Marks]**

Q Write a program to search a specific location on Google Map

**[20 Marks]**

Q. Write an application to accept a teacher name from user and display the names of students along with subject to whom they are teaching

Create table Student (sno,s\_name,s\_class,s\_addr)

Teacher (tno, t\_name, qualification, experience)

Student-Teacher has Many to Many relationship **[20 Marks]**

**………………………………………………………………………………………………………**