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1) Create a login form, both username and password fields are mandatory, After entering the values transfer user control to next page showing message using Toast as "You have login successfully". [use username "Abc" and password "123" to check valid or not]

Activity_login.xml

```
<LinearLayout
    xmlns:android = "https://schemes.android.com/apk/res/android"
    android:layout_width = "match_parent"
    android:layout_height = "match_parent"
    android:orientation = "vertical"
    android:padding = "16dp"
    android:gravity = "center">

    <EditText
        android:id = "@+id/etUsername"
        android:layout_width = "match_parent"
        android:layout_height = "match_parent"
        android:hint = "Username"
        android:inputType = "text" />

    <EditText
        android:id = "@+id/etPassword"
        android:layout_width = "match_parent"
        android:layout_height = "match_parent"
        android:hint = "Password"
        android:inputType = "textPassword" />
```

```
<Button
    android:id="@+id/btnlogin"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="login" />
</LinearLayout>
```

MainActivity.java

```
package com.example.login;

import android.*;
import android.appcompat.app.AppCompatActivity;

public class mainActivity extends AppCompatActivity {
    EditText etUsername, etPassword;
    Button btnlogin;

    @override
    protected void onCreate(Bundle savedInstanceState){
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_login);

        etUsername = findViewById(R.id.etUsername);
        etPassword = findViewById(R.id.etPassword);
        btnlogin = findViewById(R.id.btnlogin);

        btnlogin.setOnClickListener(new View.OnClickLis
        ()

        @override
```

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```
public void onClick (View v) {
    String username = etUsername.getText().toString();
    String password = etPassword.getText().toString();

    if (username.equals("Abc") && password.equals("123")
    ) {
        Toast.makeText(MainActivity.this, "You have
                logged in successfully", Toast.LENGTH_
                SHORT).show();

        Intent intent = new Intent(MainActivity.this,
                NextActivity.class);
        startActivity(intent);
    } else {
        Toast.makeText(MainActivity.this,
        "Invalid username or password",
                Toast.LENGTH_SHORT).show();
    }
    });
}
}
```

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NextActivity.java

```
package com.example.login;

import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;

public class NextActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_next);

        Toast.makeText(NextActivity.this, "Welcome to
            the Next Page!", Toast.LENGTH_LONG).show();
    }
}
```

activity_next.xml

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center"
    android:orientation="vertical">

    <TextView
        android:id="@+id/tvwelcome"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Welcome"
        android:textSize="24sp"
        android:textStyle="bold" />

</LinearLayout>
```

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2) Write an android application using sqlite to create employee (eid, ename, adept, esalary) table and insert a record in table and display appropriate message on toast to user.

Database.java

```
package com.example.employee;

import android.*;
public class Employee extends SQLiteOpenHelper {

    private static final String DATABASE_NAME = "Employee";
    private static final int DATABASE_VERSION = 1;

    public static final String TABLE_EMPLOYEE = "employee";
    public static final String COLUMN_EID = "eid";
    public static final String COLUMN_ENAME = "ename";
    public static final String COLUMN_ADEPT = "adept";
    public static final String COLUMN_ESALARY = "esalary";

    private static final String CREATE_TABLE_EMPLOYEE
    = "CREATE TABLE" + TABLE_EMPLOYEE + "(" +
        COLUMN_EID + "INTEGER PRIMARY KEY AUTOC," +
        COLUMN_NAME + "TEXT," +
        COLUMN_ADEPT + "TEXT," +
        COLUMN_ESALARY + "NUMBER" + ")" +
```

~~public class~~ {
public Employee (Context context) {
super (context, "EmployeeDB", null, 1);
}
@override
public void onCreate (SQLiteDatabase db) {
db.execSQL ("Create Table employee (eid int primary key, ename Text, adept Text, esalary Number");
}
public boolean insertEmployee (String ename, String adept, double esalary) {
SQLiteDatabase db = this.getWritableDatabase();
ContentValues values = new ContentValues();
values.put ("ename", ename);
values.put ("adept", adept);
values.put ("esalary", esalary);
return db.insert ("employee", null, values);
}
}

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activity_main.xml

```
<UnearLayout
    xmlns: android="http://schemes.android.com/res/
                    android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="16dp">

    <EditText
        android:id="@+id/E_Name"
        android:hint="Employee Name"
        android:layout_width="match_parent"/>

    <EditText
        android:id="@+id/etAdept"
        android:hint="Department"
        android:layout_width="match_parent"
        android:
    <EditText
        android:id="@+id/etEsalary"
        android:hint="Salary"
        android:layout_width="match_parent"
        android:inputType="numberDecimal"/>
    <Button
        android:id="@+id/btnInsert"
        android:text="Insert Record"
        android:layout_width="wrap_content"/>
</LinearLayout>
```

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MainActivity.java

```
package com.example.employee;
import android.*;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    EditText etname, etdept, etsalary;
    Button btnInsert;
    Employee dbHelper;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        etName = findViewById(R.id.etEName);
        etDept = findViewById(R.id.etAdept);
        etESalary = findViewById(R.id.etEsalary);
        et btnInsert = findViewById(R.id.btnInsert));

        dbhelper = new Employee(this);
        @Override
        public void onClick(View v) {
            String ename = etEname.getText().toString();
            String edept = etDept.getText().toString();
            double esalary = Double.parseDouble
                (etEsalary.getText().toString());
```

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```
if (dbHelper.insertEmployee(ename, deptno,
                            esalary)) {
    Toast.makeText(MainActivity.this,
        "Record Inserted", Toast.LENGTH_SHORT).
                                    show();
} else {
    Toast.makeText(MainActivity.this, "failed",
        Toast.LENGTH_SHORT).show();
}
});
}
}
```

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3) Demonstrate a SQLite database application to insert a record in table.

DBHelper.java

```
package com.example.sqlite;
import android.*;

public class DBHelper extends SQLiteOpenHelper {
    private static final String DATABASE_NAME = "EmpDB";
    private static final int Database_Version = 1;

    private static final String table_name = "employee";
    private static final String column_id = "eid";
    private static final column_name = "ename";
    private static final String column_dept = "adept";
    private static final string column_salary = "esalary";

    private static final String create_table = "CREATE TABLE
    + TABLE_NAME + "(" +
        COLUMN_ID + "INTEGER PRIMARY KEY," +
        COLUMN_NAME + "TEXT", +
        COLUMN_DEPT + "TEXT," +
        COLUMN_SALARY + "REAL)";

    public DBHelper (Context context) {
        super (context, DATABASE_NAME, NULL, DATABASE_
                                                VERSION);
    }
```

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```
@Override
public void onCreate (SQLiteDatabase db) {
    db.execSQL(CREATE_TABLE);
}
public Boolean insertEmployee (String ename, String edept,
                               double esalary) {
    SQLiteDatabase db = this.getWritableDatabase();
    ContentValues values = new ContentValues();
    values.put(column_name, ename);
    values.put(column_dept, edept);
    values.put(column_salary, esalary);

    long result = db.insert(Table_name, null, values);
    return result != -1;
}
}
```

MainActivity.java

```
package com.example.sqlite;
import android.*;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
    EditText etEName, etDept, etSalary;
    Button btnInsert;
    DBHelper dbhelper;
```

```
@Override
protected void onCreate(Bundle savedInstanceState)
{ super.onCreate(savedInstanceState);
  setContentView(R.layout.activity_main);

etName = findViewById(R.id.etEName);
etAdept = findViewById(R.id.etAdept);
etEsalary = findViewById(R.id.etESalary);
btnInsert = findViewById(R.id.btnInsert);

dbHelper = new DBHelper(this);
btnInsert.setOnClickListener(new View.OnClickListener()
{ @Override
  public void onClick(View v) {
    String ename = etEName.getText().toString();
    String adept = etAdept.getText().toString();
    double esalary = Double.parseDouble(
        etESalary.getText().toString());
    if (dbHelper.insertEmployee(ename, adept,
        esalary)) {
      Toast.makeText(MainActivity.this,
        "Record inserted successfully", Toast.
        LENGTH_SHORT).show();
    } else {
      Toast.makeText(MainActivity.this, "failed",
        Toast.LENGTH_SHORT).show();
    }
  }
});
}
```

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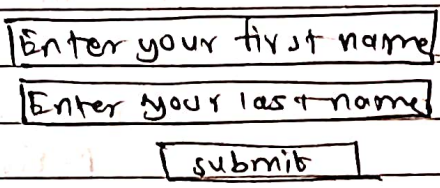
a) Write a program to demonstrate below UI and pass data (first name and last name) from Activity one to activity Two. Display passed data in textview on Activity Two.

Activity one



Activity two

Hello Mr/Mrs : First_Name Last_Name

ActivityOne.java

```
package com.example.activityone;
import android.*;
import androidx.appcompat.app.AppCompatActivity;

public class ActivityOne extends AppCompatActivity {
    private EditText firstNameEditText;
    private EditText lastNameEditText;
    private Button passDataButton;

    @override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activityone);

        firstNameEditText = findViewById(R.id.editTextFirstName);
        lastNameEditText = findViewById(R.id.editTextLastName);
        passDataButton = findViewById(R.id.buttonPassData);
```

```
passDataButton.setOnClickListener(new View.OnClickListener
{   @Override
    public void onClick(View v) {
        String firstName = firstNameEditText.getText().toString
        String lastName = lastNameEditText.getText().toString

        Intent intent = new Intent(ActivityOne.this,
                                   ActivityTwo.class);
        intent.putExtra("first_Name", firstName);
        intent.putExtra("LAST_Name", lastName);

        startActivity(intent);
    }
});
}
}
```

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ActivityTwo.java

```
package com.example.activityone;
import android.*;
import androidx.appcompat.app.AppCompatActivity;

public class ActivityTwo extends AppCompatActivity {
    private TextView displayTextView;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_two);

        displayTextView = findViewById(R.id.textViewDisplay);

        String firstName = getIntent().getStringExtra("First_Name");
        String lastName = getIntent().getStringExtra("Last_Name");

        displayTextView.setText("Hello Mr/Mrs: " + firstName
                + lastName);
    }
}
```

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c) WAP to demonstrate web services.
GetRequest : https://reqres.in/api/users?page=2
Use any library to make a get request and parse response into data model class and show it on the UI.

```
public class User {
private int id;
private String email;
private String first_name;
private String last_name;
private String avatar;

// Getters and setters omitted for brevity
```

* ~~Retrofit~~ Retrofit Interface:
Define a Retrofit interface to declare the API endpoint and the GET request method:

```
public interface UserService {

    @GET("/api/users")
    Call<List<User>> getUsers(@Query("page") int page);
}
```

* Network Call and UI Update:-

```
public class MainActivity extends Activity {
    private TextView textView;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
```

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```
textView = findViewById(R.id.user_data_text);

// Build Retrofit instance
Retrofit retrofit = new Retrofit.Builder()
    .baseUrl("https://reqres.in/")
    .addConverterFactory(GsonConverterFactory.create())
    .build();

// Create service instance
UserService userService = retrofit.create(UserService.
                                          class);

// Make API request (page 2)
Call<List<User>> call = userService.getUsers(2);

call.enqueue(new Callback<List<User>>() {
    @Override
    public void onResponse(Response<List<User>> response)
{   if (response.isSuccessful()) {
        List<User> users = response.body();
        if (users != null && !users.isEmpty()) {
            StringBuilder sb = new StringBuilder();
            for (User user : users) {
                sb.append("ID").append(user.getId()).
                    append("\n");
                sb.append("Email:").append(user.getEmail()).
                    .append("\n");
                sb.append("Name").append(user.getFirstName()
                    .append(" ").append(user.getLast
                    Name()).append("\n\n");
}
```

```
textview.setText(sb.toString());
}else{
textView.setText("No users found for page2");

}} else { textView.setText("Error : " + response.code());
}}

@override
public void onFailure(Throwable t) {
    textView.setText("Error: " + t.getMessage());
}
});
}
}
```

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7) Create an activity and demonstrate life cycle of activity with toast messages or logs.

```
package com.example.litecycle;

import android.*;
public class MainActivity extends AppCompatActivity{

    @Override
    protected void onCreate(Bundle savedInstanceState){
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Toast.makeText(this,"onCreate called",Toast.
                LENGTH_SHORT).show();
    }
    @Override
    protected void onStart(){
        super.onStart();
        Toast.makeText(this,"onStart called",
                Toast.LENGTH_SHORT).show();
    }
    @Override
    protected void onResume(){
        super.onResume();
        Toast.makeText(this,"onResume called",Toast.
                LENGTH_SHORT).show();
    }
    @Override
    protected void onPause(){
        super.onPause();
        Toast.makeText(this,"onPause called",
                Toast.LENGTH_SHORT.show());
    }
```

```
@override
protected void onStop(){
    super.onStop();
    Toast.makeText(this, "onStop called",
        Toast.LENGTH_SHORT).show();
}
@override
protected void onRestart(){
    super.onRestart();
    Toast.makeText(this, "onRestart called", Toast.
        LENGTH_SHORT).show();
}
@override
protected void onDestroy(){
    super.onDestroy();
    Toast.makeText(this, "onDestroy called",
        Toast.LENGTH_SHORT).show();
}
}
```

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8) Create an activity and load any fragment on it. Write all life cycle methods of fragment with toast messages

Main Activity.java

```
package com.example.fragments;
import android.*;
import androidx.fragment.app.FragmentTransaction;
public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {   super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

    FragmentTransaction transaction = getSupportFragment
                                      manager().
                                      beginTransaction();
    transaction.replace(R.id.fragment_container, new
                        MyFragment());
    transaction.commit();
    }
}
```

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myfragment.java

```
package com.example.fragment;

import android.*;
import androidx.fragment.*;

public class Myfragment extends Fragment {

    @Override
    public void onAttach(Context context) {
        super.onAttach(context);
        Toast.makeText(context, "fragment onAttach",
            Toast.LENGTH_SHORT).show();
    }
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        Toast.makeText(getActivity(), "fragment
            onCreate", Toast.LENGTH_SHORT).show();
    }
    @Override
    public void onCreateView(LayoutInflater inflater,
        ViewGroup container, Bundle savedInstanceState) {
        Toast.makeText(getActivity(), "fragment
            onCreateView", Toast.LENGTH_SHORT).show();
        return inflater.inflate(R.layout.fragment_layout,
            container, false);
    }
    @Override
    public void onStart() {
        super.onStart();
        Toast.makeText(getActivity(), "fragment onStart",
            Toast.LENGTH_SHORT).show();
    }
}
```

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```
@override
public void onResume() {
    super.onResume();
    Toast.makeText(getActivity(), "Fragment
            onResume", Toast.LENGTH_SHORT).show();
}
@override
public void onPause() {
    super.onPause();
    Toast.makeText(getActivity(), "fragment onPause",
    Toast.LENGTH_SHORT).show();
}
@override
public void onStop() {
    super.onStop();
    Toast.makeText(getActivity(), "fragment onStop",
        Toast.LENGTH_SHORT).show();
}
@override
public void onDestroy() {
    super.onDestroy();
    Toast.makeText(getActivity(), "fragment
                onDestroy", Toast
        Toast.LENGTH_SHORT).show();

@override
public void onDetach() {
    super.onDetach();
    Toast.makeText(getActivity(), "fragment Detach",
        Toast.LENGTH_SHORT).show();
}
}
```

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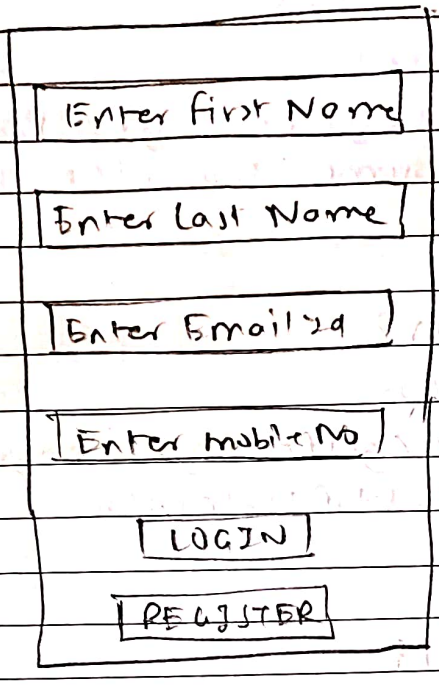
9) Write a program to demonstrate following UI.



activity_main.xml :-

```
<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"
    android:gravity="center"

    <EditText
        android:id="@+id/firstName"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter Your First Name"
        android:inputType="textPersonName"
        android:padding="16dp" />
```

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```
<EditText
    android:id="@+id/lastname"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Enter your last name"
    android:padding="16dp"
    android:inputType="textPersonName" />

<EditText
    android:id="@+id/email"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Enter email id"
    android:inputType="textEmailAddress"
    android:padding="10dp" />

<EditText
    android:id="@+id/mobile"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Enter email id"
    android:padding="16dp"
    android:inputType="phone" />

<Button
    android:id="@+id/login_button"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="login"
    android:padding="10dp" />
```

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```
<Button
    android:id="@+id/register_button"
    android:layout_height="wrap_content"
    android:layout_width="match_parent"
    android:text="Registration"
    android:padding="10dp" />
</LinearLayout>
```

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10) Write a program to show list of student by using any adapter like array adapter

MainActivity.java

```
package com.example.studentlist;
import android.*;
import androidx.appcompat.app.AppCompatActivity;
import java.util.ArrayList;

public class MainActivity extends AppCompatActivity {
    @override
    protected void onCreate (Bundle savedInstanceState) {
        super.onCreate (savedInstanceState);
        setContentView (R.layout.activity_main);

        ListView listview = findViewById (R.id.student_list_view);

    ArrayList <String> studentlist = new ArrayList <> ();
        studentlist.add (" Anushka ");
        studentlist.add (" Khushi ");
        studentlist.add (" Pratibha ");
        studentlist.add (" Bob ");
        studentlist.add (" Anuja ");

    ArrayAdapter <String> adapter = new ArrayAdapter <>
            (this, R.layout.student_item, R.id.student_name
                studentlist);
        listview.setAdapter (adapter);
    }
}
```

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activity_main.xml

```
<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">

    <ListView
        android:id="@+id/student_list_view"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />
</LinearLayout>
```

Student_item.xml

```
<TextView xmlns:android="http://schemas.android.com/apk/
                res/android"
    android:id="@+id/student_name"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:padding="10dp"
    android:textSize="18sp"
    android:textColor="@color/black" />
```

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11) Write a program to demonstrate different dialogs in android

MainActivity.java

```
package com.example.dialogj4;
import android.*;
import androidx.*;
import java.util.Calender;

public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        Button alertDialogButton = findViewById(R.id.alert_dialog_button);
        alertDialogButton.setOnClickListener(view -> showAlertDialog());

        Button datePickerButton = findViewById(R.id.date_picker_button);
        datePickerButton.setOnClickListener(view ->
                showDatePickerDialog());

        Button timePickerButton = findViewById(R.id.time_picker_button);
        timePickerButton.setOnClickListener(view ->
                showTimePickerDialog());

3
```

```
private void showAlertDialog() {
    AlertDialog.Builder builder = new AlertDialog.
                                  Builder(this);
    builder.setTitle("Alert Dialog");
    builder.setMessage("This is an example of an
                        AlertDialog");
    builder.setPositiveButton("Ok", (dialog,which) ->
                        Toast.makeText(MainActivity.this,
                        "Ok clicked", Toast.LENGTH_SHORT).show();
    builder.setNegativeButton("cancel", (dialog, which)
                        -> dialog.dismiss());
    builder.create().show();
}
private void showDatePickerDialog()
{
    Calender calender = Calendar.getInstance();
    int year = calender.get(Calendar.YEAR);
    int month = calender.get(Calendar.MONTH);
    int day = calender.get(Calendar.DAY_OF_MONTH);
    int day = calendar.get(Calendar.DAY_OF_MONTH);

    DatePickerDialog datePickerDialog = new DatePickerDialog
        (this, (view, year, monthOfYear, dayOfMonth) ->
            Toast.makeText(MainActivity.this, "selected date:"
        dayOfMonth + "/" + (monthOfYear + 1) + "/" + year).show();
            year, month, day));
    datePickerDialog.show();
}
```

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```
private void showTimePickerDialog() {
    Calendar calendar = Calendar.getInstance();
    int hour = calendar.get(Calendar.HOUR_OF_DAY);
    int minute = calendar.get(Calendar.MINUTE);

    TimePickerDialog timePickerDialog = new TimePickerDialog
    (this, (view, hourOfDay, minute) ->
        Toast.makeText(MainActivity.this, "Selected Time:
        " + hourOfDay + ":" + minute, Toast.LENGTH_SHORT).show();
    }, hour, minute, true);
    timePickerDialog.show();
}
```

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12) Write a program to demonstrate different menus in android

```
package com.example.jmenu;

import android.*;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        Button popupButton = findViewById(R.id.popup_button);
        popupButton.setOnClickListener(view -> showPopupMenu
                                        (view));

        TextView contextMenuText = findViewById(R.id.
                                    context_menu_text);
        registerForContextMenu(contextMenuText);
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu)
    { getMenuInflater().inflate(R.menu.menu_main, menu);
        return true;
    }
```

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```
@Override
public boolean onOptionsItemSelected(MenuItem item) {
    if (item.getItemId() == R.id.action_settings)
        Toast.makeText(this, "settings clicked", ).show();
    else if (item.getItemId() == R.id.action_about)
        Toast.makeText(this, "About clicked".).show();
    return super.onOptionsItemSelected(item);
}
public void onCreateContextMenu(ContextMenu (View v,
    contextMenu, ContextMenuInfo menuInfo) {
    menu.add(0, v.getId(), 0, "Edit");
    menu.add(0, v.getId(), 0, "Delete");
}
@Override
public void onCreateContextMenu(ContextMenu menu,
    View v, ContextMenu.ContextMenuInfo
@Override
public boolean onContextItemSelected(MenuItem item)
{
    if (item.getTitle().equals("Edit"))
        Toast.makeText(this, "Edit selected", Toast.LENGTH_SHORT).
            show();
    else if (item.getTitle().equals("Delete")){
        Toast.makeText(this, "Delete Selected", ).show();
    return true;
```

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```
private void showPopupMenu(View view) {
    PopupMenu popupMenu = new PopupMenu(this, view);
    popupMenu.getMenuInflater().inflate(R.menu.menu_popup, popupMenu.getMenu());
    popupMenu.setOnMenuItemClickListener(item -> {
        if (item.getItemId() == R.id.action_edit)
            Toast.makeText(this, "Edit selected", Toast.LENGTH_SHORT).show();
        else if (item.getItemId() == R.id.action_delete)
            Toast.makeText(this, "Delete selected", Toast.LENGTH_SHORT).show();
        return true;
    });
    popupMenu.show();
}
```

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13) Write a program (webview) to display this url (https://imca.mespune.in/home/) into a webview component

A Adding internet permission to AndroidManifest.xml

<uses-permission android:name="android.permission.INTERNET" />

~~post~~ MainActivity.java

```
package com.example.webview;
import android.os.*;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
    private WebView webView;
    @Override
    protected void onCreate(Bundle savedInstanceState)
    { super.onCreate(savedInstanceState);
      setContentView(R.layout.activity_main);

      webView = findViewById(R.id.webview);
      WebSettings webSettings = webView.getSettings();
      webSettings.setJavaScriptEnabled(true);

      webView.setWebViewClient(new WebViewClient());
      webview.loadURL("https://imca.mespune.in/home/");

    }
}
```

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15) Write a android app which have 2 fragments on a single activity

p:MainActivity.java

```
package com.example.twofragments;
import android.*;
import androidx.*;

public class MainActivity extends AppCompatActivity {
    @override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        FirstFragment firstFragment = new FirstFragment();
        SecondFragment secondFragment = new SecondFragment();

        FragmentManager fragmentManager =
                getSupportFragmentManager();
        FragmentTransaction fragmentTransaction =
                fragmentManager.beginTransaction();

        fragmentTransaction.add(R.id.fragment_container_1,
                firstFragment);
        fragmentTransaction.add(R.id.fragment_container_2,
                secondFragment);

        fragmentTransaction.commit();
    }
}
```

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firstfragment.java

```
package com.example.fragment3
import android.*;
import androidx.*;

public class firstfragment extends fragment {

    @Override
    public view oncreateview (Layout Inflater inflater,
                              ViewGroup container, Bundle
                                  savedInstanceState) {
        return inflater.inflate(R.layout.fragment_first,
                                container, false);
    }
}
```

Seconfragment.java

```
package com.example.fragment3
import android.*;
import androidx.*;
public class seconfragment extends fragment {

    @Override
    public View oncreateview (Layout Inflater inflater,
                              ViewGroup container, Bundle
                                  savedInstanceState) {

        return inflater.Inflate (R.layout.fragment_second,
                                 container, false);
    }
}
```

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14) Create a login page with username, password and login button in flutter

- create a new flutter project

flutter create login_app

- Navigate to the project directory

cd login_app

- Replace the lib/main.dart

```
import 'package:flutter/material.dart';

void main() {
  runApp(MyApp());
}

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Login Page',
      theme: ThemeData(
        primarySwatch: Colors.blue,
      ),
      home: LoginPage(),
    );
  }
}
```

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```
class LoginPage extends StatefulWidget {

  @override
  _LoginPageState createState() => _LoginPageState();
}

class _LoginPageState extends State<LoginPage> {

  final TextEditingController _usernameController =
                              TextEditingController();
  final TextEditingController _passwordController =
                              TextEditingController();

  void _login() {
    String username = _usernameController.text;
    String password = _passwordController.text;

    print('Username: $username');
    print('Password: $password');
  }
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Login Page'),
      ),
      body: Padding(
        padding: const EdgeInsets.all(16.0),
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>
```

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```
TextField (
    controller : _usernameController,
    decoration : InputDecoration(
        labelText : 'Username',
        border : OutlineInputBorder(),
    ),
),
SizedBox (height : 16.0);
TextField (
    controller : _passwordController,
    obscureText : true,
    decoration : InputDecoration(
    labelText : 'Password',
     border : OutlineInputBorder(),
  ),
),
SizedBox (height 16.0),
ElevatedButton(
    onPressed : -login,
    child : Text ('Login'),
  ),
 ),
),
);
3
}
```