

Program Mad 7:

create an UI with ALL Views

activity_main code:

```
<?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">

    <!-- Name EditText -->
    <EditText
        android:id="@+id/editTextName"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter Name"
        android:inputType="text"/>

    <!-- Date of Birth EditText -->
    <EditText
        android:id="@+id/editTextDOB"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Date of Birth"
        android:inputType="date"/>

    <!-- Gender RadioGroup -->
    <RadioGroup
        android:id="@+id/radioGroupGender"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">

        <RadioButton
            android:id="@+id/radioButtonMale"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Male"/>

        <RadioButton
            android:id="@+id/radioButtonFemale"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Female"/>

    </RadioGroup>

    <!-- Checkbox for terms and conditions -->
    <CheckBox
        android:id="@+id/checkboxTerms"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="I agree to the Terms and Conditions"/>

    <!-- Submit Button -->
    <Button
        android:id="@+id/buttonSubmit"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Register"/>
```

</LinearLayout>

MainActivity.java code :

```
package com.example.joshi_mad_7;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    private EditText editTextName, editTextDOB;
    private RadioGroup radioGroupGender;
    private CheckBox checkBoxTerms;
    private Button buttonSubmit;

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

        // Initialize views
        editTextName = findViewById(R.id.editTextName);
        editTextDOB = findViewById(R.id.editTextDOB);
        radioGroupGender = findViewById(R.id.radioGroupGender);
        checkBoxTerms = findViewById(R.id.checkBoxTerms);
        buttonSubmit = findViewById(R.id.buttonSubmit);

        // Set click listener for the submit button
        buttonSubmit.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                // Retrieve user input
                String name = editTextName.getText().toString().trim();
                String dob = editTextDOB.getText().toString().trim();
                int selectedGenderId =
radioGroupGender.getCheckedRadioButtonId();
                String gender = getGenderFromId(selectedGenderId);
                boolean termsChecked = checkBoxTerms.isChecked();

                // Validate user input
                if (name.isEmpty() || dob.isEmpty() || gender.isEmpty() || !
termsChecked) {
                    Toast.makeText(MainActivity.this, "Please fill in all fields
and agree to terms.", Toast.LENGTH_SHORT).show();
                } else {
                    // Process registration (e.g., save to database, etc.)
                    Toast.makeText(MainActivity.this, "Registration
successful!", Toast.LENGTH_SHORT).show();
                    // Optionally, you can navigate to another activity or
perform other actions here
                }
            }
        });
    }
}
```

```
}

// Helper method to get gender from radio button ID
private String getGenderFromId(int selectedId) {
    RadioButton radioButtonMale = findViewById(R.id.radioButtonMale);
    RadioButton radioButtonFemale = findViewById(R.id.radioButtonFemale);

    if (selectedId == radioButtonMale.getId()) {
        return "Male";
    } else if (selectedId == radioButtonFemale.getId()) {
        return "Female";
    } else {
        return "";
    }
}
}
```