

# 1. LOGIN PAGE

## XML CODE:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/usernameInput"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginStart="32dp"
        android:layout_marginEnd="32dp"
        android:layout_marginTop="100dp"
        android:hint="Enter Username"
        android:inputType="textPersonName"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent" />

    <EditText
        android:id="@+id/passwordInput"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:layout_marginStart="32dp"
        android:layout_marginEnd="32dp"
        android:hint="Enter Password"
        android:inputType="textPassword"
        app:layout_constraintTop_toBottomOf="@id/usernameInput"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent" />

    <Button
        android:id="@+id/loginButton"
        android:layout_width="wrap_content"
```

```

        android:layout_height="wrap_content"
        android:layout_marginTop="24dp"
        android:text="Login"
        app:layout_constraintTop_toBottomOf="@id/passwordInput"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

### **JAVA CODE:**

```
package com.example.eg;    <!-- Replace with your actual package name -->
```

```

import android.os.Bundle;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;

```

```
public class MainActivity extends AppCompatActivity {
```

```

    EditText usernameInput, passwordInput;
    Button loginButton;

```

```
@Override
```

```

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

```

```

    usernameInput = findViewById(R.id.usernameInput);
    passwordInput = findViewById(R.id.passwordInput);
    loginButton = findViewById(R.id.loginButton);

```

```

    loginButton.setOnClickListener(v -> {
        String username = usernameInput.getText().toString().trim();
        String password = passwordInput.getText().toString().trim();

        if (!username.isEmpty()) {
            Toast.makeText(MainActivity.this, "Username: " + username,
                Toast.LENGTH_SHORT).show();
        } else {
            Toast.makeText(MainActivity.this, "Please enter username",
                Toast.LENGTH_SHORT).show();
        }
    });

```

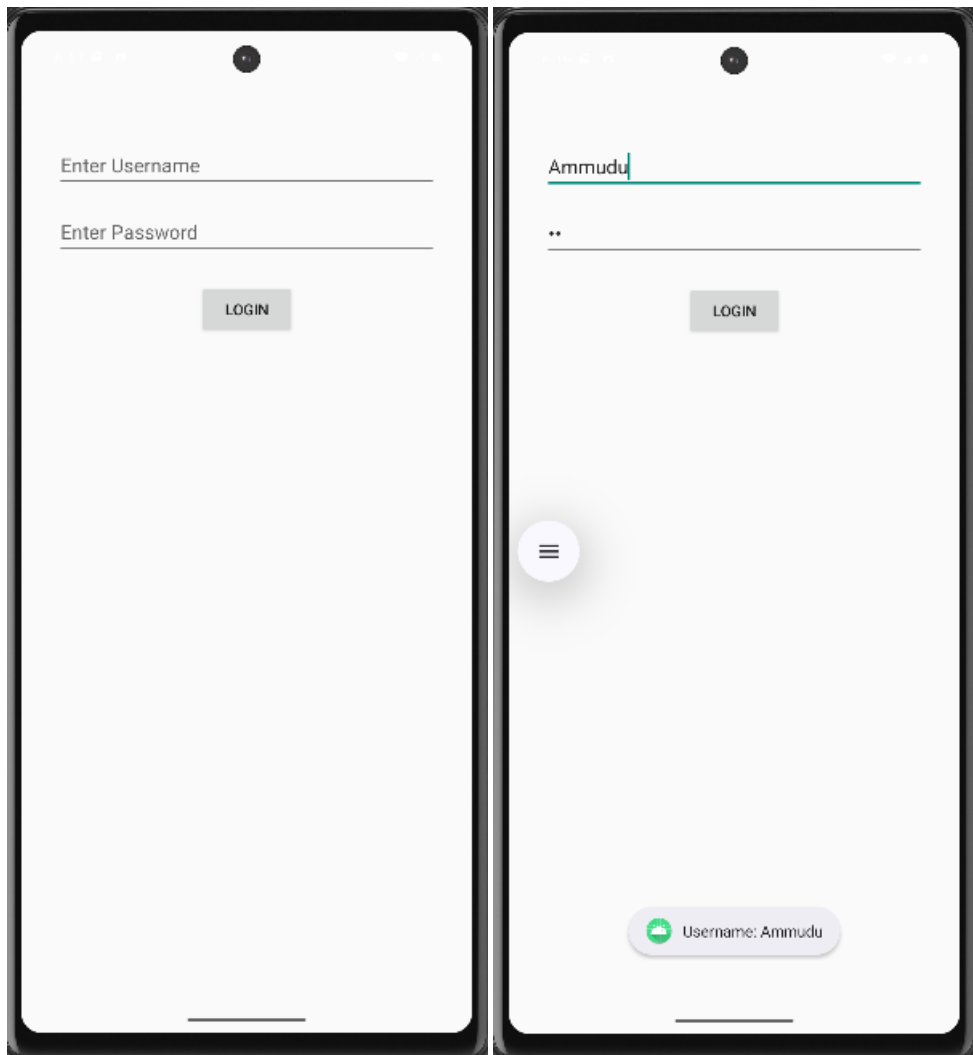
```
    }  
    });  
}  
}
```

### **AndroidManifest.xml:**

**(USE IT IF XML AND JAVA CODE DOESN'T OPEN THE APP. IF THE APP OPEN SUCCESSFULLY WHEN YOU PUT JAVA AND XML CODE JUST LEAVE THIS CODE :)**

```
<?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:icon="@mipmap/ic_launcher"  
        android:label="Login App"  
        android:roundIcon="@mipmap/ic_launcher_round"  
        android:supportsRtl="true"  
        android:theme="@style/Theme.AppCompat.Light.NoActionBar"> <!-- Or use your  
preferred theme -->  
  
        <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>
```

## OUTPUT:



## 2. DATE AND TIME PICKER

### XML CODE:

```
<?xml version="1.0" encoding="utf-8"?>
<android.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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/datetime"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:hint="Display!"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="40dp" />
    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Show Time"
        android:onClick="showTime"
        app:layout_constraintTop_toBottomOf="@+id/datetime"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="24dp" />
    <ImageView
        android:id="@+id/imageView"
        android:layout_width="191dp"
        android:layout_height="183dp"
        app:srcCompat="@android:drawable/btn_star_big_on"
        app:layout_constraintTop_toBottomOf="@+id/button"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="24dp" />
</android.constraintlayout.widget.ConstraintLayout>
```

## **JAVA CODE:**

package com.example.eg;                      <!--Replace with your actual package name -->

```
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;
import java.text.DateFormat;
import java.util.Date;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
    }
    public void showTime(View v)
    {
        TextView tv=(TextView)findViewById(R.id.datetime);
        Date d=new Date();
        String s=DateFormat.getDateTimeInstance().format(d);
        tv.setText(s);
    }
}
```

**OUTPUT:**



### 3. IMPLICIT INTENT

#### XML CODE:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="click to connect!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="58dp"
        android:onClick="connect"
        android:text="CLICK TO CONNECT!!!!!!"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView2"
        tools:ignore="MissingConstraints,OnClick" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

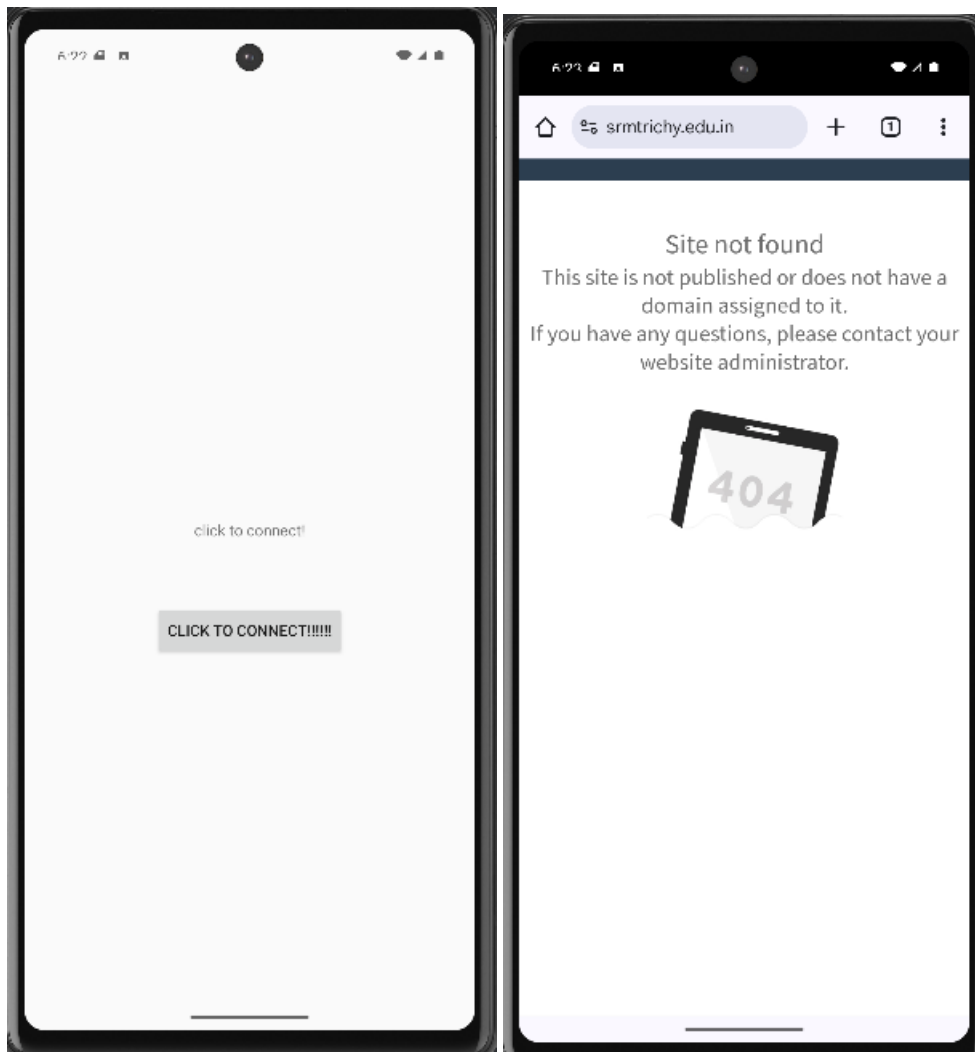


## **JAVA CODE:**

```
package com.example.eg;

import android.content.Intent;
import android.os.Bundle;
import android.net.Uri;
import android.view.View;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
    }
    public void connect(View v)
    {
        Intent i=new Intent(Intent.ACTION_VIEW);
        i.setData(Uri.parse("https://www.srmtrichy.edu.in/"));
        startActivity(i);
    }
}
```

## OUTPUT:



## 4. EXPLICIT INTENT

### activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.136" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="96dp"
        android:onClick="show"
        android:text="Button"
        app:layout_constraintStart_toStartOf="@+id/textView2"
        app:layout_constraintTop_toBottomOf="@+id/textView2" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

## MainActivity.java

```
package com.example.eg;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;

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

    public void show(View v) {
        Intent i = new Intent(getApplicationContext(), MainActivity3.class);
        startActivity(i);
    }
}
```

## 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">

    <Button
        android:id="@+id/button2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:onClick="display"
        android:text="Show Toast" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
        android:text="TextView"
        android:layout_marginTop="24dp" />
</LinearLayout>
```

### MainActivity3.java

```
package com.example.eg;

import android.os.Bundle;
import android.view.View;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity3 extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2); // activity_main2.xml
    }

    public void display(View v) {
        Toast.makeText(getApplicationContext(), "I'm activity 2. Welcome All to SRM",
        Toast.LENGTH_SHORT).show();
    }
}
```

### AndroidManifest.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"
    package="com.example.eg">

    <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:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
```

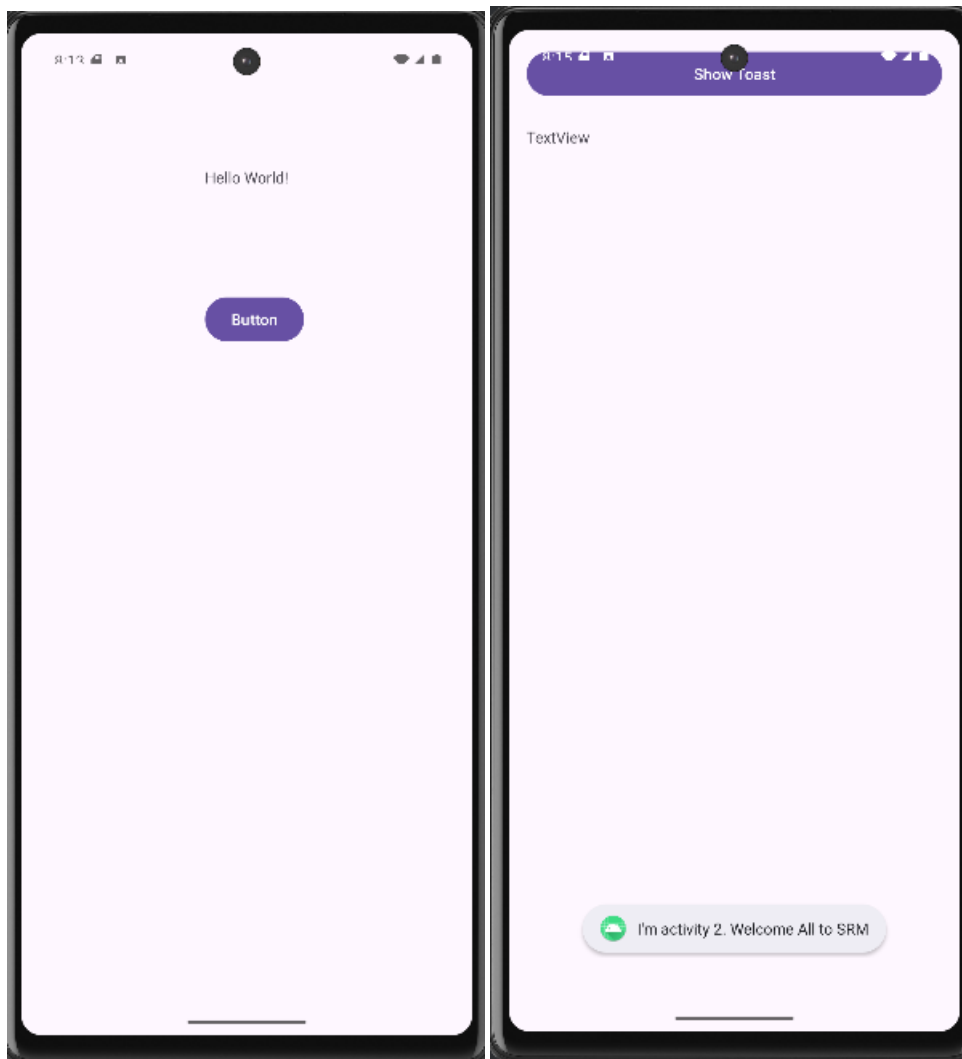
```
android:theme="@style/Theme.Eg"  
tools:targetApi="31">
```

```
<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>
```

```
<activity android:name=".MainActivity3" />
```

```
</application>  
</manifest>
```

## OUTPUT:



## 5. STUDENT REGISTRATION FORM

### XML CODE:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <LinearLayout
        android:layout_width="406dp"
        android:layout_height="722dp"
        android:orientation="horizontal"
        tools:layout_editor_absoluteX="1dp"
        tools:layout_editor_absoluteY="1dp"
        tools:ignore="MissingConstraints">
        <ListView
            android:id="@+id/list"
            android:layout_width="match_parent"
            android:layout_height="match_parent" />
    </LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```



## **JAVA CODE:**

```
package com.example.eg;

import android.os.Bundle;
import android.widget.AdapterView;
import android.widget.ListView;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
    ListView l;
    String registration[]={"student registration form","personal details","academic
Details","Co Curricular activities","Extra-curricular Activities","Skill-set","Project Details"};
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        l = findViewById(R.id.list);
        ArrayAdapter<String> arr;
        arr = new ArrayAdapter<>(MainActivity.this, android.R.layout.simple_spinner_item,
            registration);
        l.setAdapter(arr);
    }
}
```

**OUTPUT:**

student registration form

6:29

personal details

academic Details

Co Curricular activities

Extra-curricular Activities

Skill-set

Project Details