Tilak Education Society's S.K College of Science & Commerce

(Affiliated to University of Mumbai)

NAAC Accredited "A" Grade with 3.17 CGPA & ISO 9001:2015 Certified Institution

Plot 31, Sector 25, Seawoods, Nerul (East), Navi Mumbai.400706 Email:skc.nerul@gmail.com Website: www.tilakedu.com

Name of the Student: Kavya Balakrishnan SRN: 2022010005

Experiment No: 4 Class: TYIT

Practical No: 4

AIM: Programming UI elements - AppBar, Fragments, UI Components

```
AppBar
Code:
File->new resources directory-> select menu
File-> new menu file -> give a name
Write this code in menu file
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:app="http://schemas.android.com/apk/res-auto"</pre>
  xmlns:android="http://schemas.android.com/apk/res/android">
  <item
    android:id="@+id/action search"
    android:icon="@android:drawable/ic menu search"
    android:title="Search"
    app:showAsAction="ifRoom" />
  <item
    android:id="@+id/action settings"
    android:title="Settings"
    app:showAsAction="never"/>
</menu>
```

Write this in main.xml file

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

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

S.K College of Science & Commerce

(Affiliated to University of Mumbai)

NAAC Accredited "A" Grade with 3.17 CGPA & ISO 9001:2015 Certified Institution

Plot 31, Sector 25, Seawoods, Nerul (East), Navi Mumbai.400706 Email:skc.nerul@gmail.com Website: www.tilakedu.com

Name of the Student: Kavya Balakrishnan SRN: 2022010005

```
android:layout width="match parent"
    android:layout height="match parent"
    android:orientation="vertical"
    android:gravity="center">
  <TextView
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text=" Welcome to App Bar Example"
    android:textSize="18sp"/>
  </LinearLayout>
</android.support.constraint.ConstraintLayout>
Write main.kt
package com.example.myapplication
import android.support.v7.app.AppCompatActivity
import android.os.Bundle
import android.view.Menu
import android.view.MenuItem
import android.widget.Toast
class MainActivity: AppCompatActivity() {
  override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity main)
    supportActionBar?.title = "ActionBar Example"
// Enable the back button (optional)
    supportActionBar?.setDisplayHomeAsUpEnabled(true)
  override fun onCreateOptionsMenu(menu: Menu?): Boolean {
    menuInflater.inflate(R.menu.top app bar,menu)
    return true
```

S.K College of Science & Commerce

(Affiliated to University of Mumbai)

NAAC Accredited "A" Grade with 3.17 CGPA & ISO 9001:2015 Certified Institution

Plot 31, Sector 25, Seawoods, Nerul (East), Navi Mumbai.400706 Email:skc.nerul@gmail.com Website: www.tilakedu.com

Name of the Student: Kavya Balakrishnan SRN: 2022010005

S.K College of Science & Commerce

(Affiliated to University of Mumbai)

NAAC Accredited "A" Grade with 3.17 CGPA & ISO 9001:2015 Certified Institution

Plot 31, Sector 25, Seawoods, Nerul (East), Navi Mumbai.400706 Email:skc.nerul@gmail.com Website: www.tilakedu.com

Name of the Student: Kavya Balakrishnan SRN: 2022010005

```
Experiment No: 4
                                                                 Class: TYIT
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout width="match parent"
  android:layout height="match parent"
  android:orientation="vertical"
  android:padding="20dp">
  <EditText
    android:id="@+id/etName"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:hint="Enter Name" />
  <EditText
    android:id="@+id/etEmail"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:hint="Enter Email" />
  <LinearLayout
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout margin="5dp"
    android:orientation="horizontal">
    <TextView
      android:layout width="wrap content"
      android:layout height="match parent"
      android:layout marginEnd="10dp"
      android:text="Select Gender" /> <!-- Adjust margin as needed -->
    <RadioGroup
```

S.K College of Science & Commerce

(Affiliated to University of Mumbai)

NAAC Accredited "A" Grade with 3.17 CGPA & ISO 9001:2015 Certified Institution

Plot 31, Sector 25, Seawoods, Nerul (East), Navi Mumbai.400706 Email:skc.nerul@gmail.com Website: www.tilakedu.com

Name of the Student: Kavya Balakrishnan SRN: 2022010005

Experiment No: 4 Class: TYIT

```
android:id="@+id/radioSex"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:orientation="horizontal">
    < Radio Button
      android:id="@+id/radioFemale"
      android:layout width="match parent"
      android:layout height="match parent"
      android:text="Female" />
    < Radio Button
      android:id="@+id/radioMale"
      android:layout width="75dp"
      android:layout height="wrap content"
      android:checked="true"
      android:text="Male" />
  </RadioGroup>
</LinearLayout>
<EditText
  android:id="@+id/etPassword"
  android:layout width="match parent"
  android:layout height="wrap content"
  android:hint="Enter Password"
  android:inputType="textPassword" />
<EditText
  android:id="@+id/etRePassword"
  android:layout width="match parent"
  android:layout height="wrap content"
```

android:hint=" Re-Enter Password"

S.K College of Science & Commerce

(Affiliated to University of Mumbai)

NAAC Accredited "A" Grade with 3.17 CGPA & ISO 9001:2015 Certified Institution

Plot 31, Sector 25, Seawoods, Nerul (East), Navi Mumbai.400706 Email:skc.nerul@gmail.com Website: www.tilakedu.com

Name of the Student: Kavya Balakrishnan SRN: 2022010005

Experiment No: 4 Class: TYIT

android:inputType="textPassword" />

<Button

android:id="@+id/btnRegister" android:layout_width="match_parent" android:layout_height="wrap_content" android:text="Register" />

</LinearLayout>

Output

← ActionBar Example

Welcome to App Bar Example

S.K College of Science & Commerce

(Affiliated to University of Mumbai)

NAAC Accredited "A" Grade with 3.17 CGPA & ISO 9001:2015 Certified Institution
Plot 31, Sector 25, Seawoods, Nerul (East), Navi Mumbai.400706
Email:skc.nerul@gmail.com Website: www.tilakedu.com

Name of the Student: Kavya Balakrishnan SRN: 2022010005

Experiment No: 4 Class: TYIT

• UI components

Code:

DisplayActivity.kt

```
package com.example.myapplication
import android.os.Bundle
import android.widget.TextView
import androidx.appcompat.app.AppCompatActivity
class DisplayActivity : AppCompatActivity() {
  override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity display)
    val email = intent.getStringExtra("EMAIL")
    val gender = intent.getStringExtra("GENDER")
    val textView = findViewById<TextView>(R.id.tvDisplayInfo)
    textView.text = "Email: $email\nGender: $gender"
```

S.K College of Science & Commerce (Affiliated to University of Mumbai)

NAAC Accredited "A" Grade with 3.17 CGPA & ISO 9001:2015 Certified Institution

Plot 31, Sector 25, Seawoods, Nerul (East), Navi Mumbai.400706 Email:skc.nerul@gmail.com Website: www.tilakedu.com

Name of the Student: Kavya Balakrishnan	SRN: 2022010005
Experiment No: 4	Class: TYIT
MainActivity.kt	
package com.example.myapplication	
import android.content.Intent	
import android.os.Bundle	
import android.widget.*	
import androidx.appcompat.app.AppCompatActivity	
class MainActivity : AppCompatActivity() {	
private lateinit var etEmail: EditText	
private lateinit var etPassword: EditText	
private lateinit var etRePassword: EditText	
private lateinit var radioSex: RadioGroup	
private lateinit var btnRegister: Button	
override fun onCreate(savedInstanceState: Bundle?) {	
super.on Create (saved Instance State)	
setContentView(R.layout.activity_main)	
etEmail = findViewById(R.id.etEmail) etPassword = findViewById(R.id.etPassword)	

S.K College of Science & Commerce

(Affiliated to University of Mumbai)

NAAC Accredited "A" Grade with 3.17 CGPA & ISO 9001:2015 Certified Institution

Plot 31, Sector 25, Seawoods, Nerul (East), Navi Mumbai.400706 Email:skc.nerul@gmail.com Website: www.tilakedu.com

Name of the Student: Kavya Balakrishnan SRN: 2022010005

```
etRePassword = findViewById(R.id.etRePassword)
    radioSex = findViewById(R.id.radioSex)
    btnRegister = findViewById(R.id.btnRegister)
    btnRegister.setOnClickListener {
      val email = etEmail.text.toString()
      val password = etPassword.text.toString()
      val rePassword = etRePassword.text.toString()
      val selectedId = radioSex.checkedRadioButtonId
      val gender = findViewById<RadioButton>(selectedId)?.text.toString()
      if (password = rePassword) {
         val intent = Intent(this, DisplayActivity::class.java).apply {
           putExtra("EMAIL", email)
           putExtra("GENDER", gender)
         startActivity(intent)
       } else {
         Toast.makeText(this, "Passwords do not match!",
Toast.LENGTH SHORT).show()
```



S.K College of Science & Commerce

(Affiliated to University of Mumbai)

NAAC Accredited "A" Grade with 3.17 CGPA & ISO 9001:2015 Certified Institution

Plot 31, Sector 25, Seawoods, Nerul (East), Navi Mumbai.400706 Email:skc.nerul@gmail.com Website: www.tilakedu.com

Name of the Student: Kavya Balakrishnan SRN: 2022010005

```
Activity_display.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout width="match parent"
  android:layout height="match parent"
  android:orientation="vertical"
  android:padding="20dp"
  android:gravity="center">
  <TextView
    android:id="@+id/tvDisplayInfo"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:textSize="18sp"
    android:text="User Info will appear here" />
</LinearLayout>
```

Tilak Education Society's S.K College of Science & Commerce

(Affiliated to University of Mumbai)

NAAC Accredited "A" Grade with 3.17 CGPA & ISO 9001:2015 Certified Institution

Plot 31, Sector 25, Seawoods, Nerul (East), Navi Mumbai.400706 Email:skc.nerul@gmail.com Website: www.tilakedu.com

Name of the Student: Kavya Balakrishnan SRN: 2022010005

Experiment No: 4 Class: TYIT

Activity_main.xml

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

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

```
android:layout width="match parent"
```

android:layout height="match parent"

android:background="@color/white"

android:gravity="center horizontal|center vertical"

android:orientation="vertical"

android:padding="50dp">

<ImageView

android:id="@+id/imageBeforeLogo"

android:layout_width="50dp"

android:layout_height="50dp"

android:layout gravity="center"

android:src="@drawable/downlaod" />

<TextView

android:layout width="wrap content"

android:layout height="wrap content"

Tilak Education Society's S.K College of Science & Commerce

(Affiliated to University of Mumbai)

NAAC Accredited "A" Grade with 3.17 CGPA & ISO 9001:2015 Certified Institution

Plot 31, Sector 25, Seawoods, Nerul (East), Navi Mumbai.400706 Email:skc.nerul@gmail.com Website: www.tilakedu.com

Name of the Student: Kavya Balakrishnan SRN: 2022010005

Experiment No: 4 Class: TYIT android:layout gravity="center" android:text="S. K. College of Science and Commerce" /> <TextView android:layout width="wrap content" android:layout height="wrap content" android:layout gravity="center|center horizontal|center vertical" android:scaleX="1" android:scaleY="1" android:text=" Tilak Education Society's S. K. College of Sciencedited A Grade with 3.17 CGPA" android:textAlignment="center" android:textSize="12sp" /> <EditText android:id="@+id/etEmail" android:layout width="match parent" android:layout_height="wrap_content" android:hint="Enter Email" />

<LinearLayout

S.K College of Science & Commerce

(Affiliated to University of Mumbai)

NAAC Accredited "A" Grade with 3.17 CGPA & ISO 9001:2015 Certified Institution

Plot 31, Sector 25, Seawoods, Nerul (East), Navi Mumbai.400706 Email:skc.nerul@gmail.com Website: www.tilakedu.com

Name of the Student: Kavya Balakrishnan SRN: 2022010005

```
android:layout width="match parent"
android:layout height="wrap content"
android:layout margin="5dp"
android:orientation="horizontal">
<TextView
  android:layout width="wrap content"
  android:layout height="match parent"
  android:layout marginEnd="10dp"
  android:text="Select Gender" /> <!-- Adjust margin as needed -->
<RadioGroup
  android:id="@+id/radioSex"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:orientation="horizontal">
  < Radio Button
    android:id="@+id/radioFemale"
    android:layout_width="match_parent"
    android:layout height="match parent"
    android:text="Female" />
```

S.K College of Science & Commerce

(Affiliated to University of Mumbai)

NAAC Accredited "A" Grade with 3.17 CGPA & ISO 9001:2015 Certified Institution

Plot 31, Sector 25, Seawoods, Nerul (East), Navi Mumbai.400706 Email:skc.nerul@gmail.com Website: www.tilakedu.com

Name of the Student: Kavya Balakrishnan SRN: 2022010005

```
< Radio Button
      android:id="@+id/radioMale"
      android:layout width="75dp"
      android:layout height="wrap content"
      android:checked="true"
      android:text="Male" />
  </RadioGroup>
</LinearLayout>
<EditText
  android:id="@+id/etPassword"
  android:layout width="match parent"
  android:layout_height="wrap_content"
  android:hint="Enter Password"
  android:inputType="textPassword" />
<EditText
  android:id="@+id/etRePassword"
  android:layout width="match parent"
  android:layout_height="wrap_content"
```

S.K College of Science & Commerce

(Affiliated to University of Mumbai)

NAAC Accredited "A" Grade with 3.17 CGPA & ISO 9001:2015 Certified Institution

Plot 31, Sector 25, Seawoods, Nerul (East), Navi Mumbai.400706 Email:skc.nerul@gmail.com Website: www.tilakedu.com

Name of the Student: Kavya Balakrishnan SRN: 2022010005

Experiment No: 4 Class: TYIT

android:hint=" Re-Enter Password"
android:inputType="textPassword" />

<Button

android:id="@+id/btnRegister"

android:layout_width="match_parent"

android:layout_height="wrap_content"

android:text="Register" />

</LinearLayout>

S.K College of Science & Commerce

(Affiliated to University of Mumbai)

NAAC Accredited "A" Grade with 3.17 CGPA & ISO 9001:2015 Certified Institution

Plot 31, Sector 25, Seawoods, Nerul (East), Navi Mumbai.400706 Email:skc.nerul@gmail.com Website: www.tilakedu.com

Name of the Student: Kavya Balakrishnan	SRN: 2022010005
Experiment No: 4	Class: TYIT
OUTPUT:	
Registration form:	

My Application



Display: