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: 2   **Class: TYIT**

PRACTICAL 2A

AIM: Programming Activities and fragments Activity Life Cycle, Activity methods, Multiple Activities, Life Cycle of fragments and multiple fragments.

a. Fragments Activity Life Cycle :

CODE:

```
import
android.support.v7.app.AppCompatActivity
import android.os.Bundle
import android.util.Log


class MainActivity : AppCompatActivity() {
  val TAG="StateChange"
  override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_main)
    Log.i(TAG,"onCreate")
  }
  override fun onStop() {
    super.onStop()
    Log.i(TAG,"onStop")
  }override fun onRestart()
  { super.onRestart()
```

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: 2   Class: TYIT

_____

```
    Log.i(TAG,"onRestart")

  }

  override fun onDestroy() {

    super.onDestroy()

    Log.i(TAG,"onDestory")

  }

}
```

OUTPUT:

1) **When application is installed**

    `I/StateChange: onCreate`

2) **When we close the application**

    `I/StateChange: onStop`

    `I/StateChange: onDestory`

3) **When application is restarted**

    `78 I/StateChange: onRestart`

Name of the Student: Kavya Balakrishnan   SRN: 2022010005

Experiment No: 2   Class: TYIT

PRACTICAL 2B

AIM: Life Cycle of fragments and multiple fragments.

CODE:

Activity_main.xml:

```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">

    <FrameLayout
        android:id="@+id/fragment_container_one"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_weight="1"/>

    <FrameLayout
        android:id="@+id/fragment_container_two"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_weight="1"/>

</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: 2   Class: TYIT
_____

fragments1.xml:

```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:background="@color/purple_700">

</LinearLayout>
```

fragments2.xml:

```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:background="@color/teal_200">

</LinearLayout>
```

f1.kt :

```kotlin
package com.example.myapplication

import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.support.v4.app.Fragment

class f1:Fragment() {
```

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: 2   Class: TYIT

```kotlin
    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View? {
        return inflater.inflate(R.layout.fragments1,container,false)
    }

}
```

f2.kt :

```kotlin
package com.example.myapplication

import android.os.Bundle
import
android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.support.v4.app.Fragment

class f2:Fragment() {
    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View? {
        return inflater.inflate(R.layout.fragments2,container,false)
    }

}
```

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: **2**   **Class: TYIT**

_____

Mainactivity.kt :

```kotlin
package com.example.myapplication

import
android.support.v7.app.AppCompatActivity
import android.os.Bundle

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        if (savedInstanceState == null) {
            val fargmentone= f1()
            val fargmenttwo =f2()

            val transaction = supportFragmentManager


transaction.beginTransaction().replace(R.id.fragment_container_one,fargmentone).commit()

transaction.beginTransaction().replace(R.id.fragment_container_two,fargmenttwo).commit()

        }
    }
}
```

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: 2   **Class: TYIT**

OUTPUT: