



**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: 7

Class: TYIT

Practical No: 7

AIM: Programs on Services, notification and broadcast receivers.

CODE :

manifest

```
<service android:name=".MyService" android:exported="false"/>
```

MyService.kt

```
package com.example.prac7_not_serv

import android.app.Notification
import android.app.NotificationChannel
import android.app.NotificationManager
import android.app.Service
import android.content.Context
import android.os.Build
import android.os.IBinder
import android.service.notification.NotificationListenerService
import android.support.v4.app.NotificationCompat

class MyService : Service() {

    private val CHANNEL_ID = "NotificationServiceChannel"

    override fun onCreate() {
        super.onCreate()
```



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: 7

Class: TYIT

```
createNotificationChannel()

}

override fun onStartCommand(intent: android.content.Intent?, flags: Int, startId: Int): Int {

    // Sending a notification after some operation

    showNotification()

    return START_NOT_STICKY

}

override fun onBind(intent: android.content.Intent?): IBinder? {

    return null

}

private fun createNotificationChannel() {

    // Create the NotificationChannel on Android O and higher

    if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {

        val name = "Service Channel"

        val descriptionText = "Channel for service notifications"

        val importance = NotificationManager.IMPORTANCE_DEFAULT

        val channel = NotificationChannel(CHANNEL_ID, name, importance).apply {

            description = descriptionText

        }

        // Register the channel with the system
```



**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: 7

Class: TYIT

```
val notificationManager: NotificationManager =  
    getSystemService(Context.NOTIFICATION_SERVICE) as NotificationManager  
    notificationManager.createNotificationChannel(channel)  
}  
  
private fun showNotification() {  
    // Create the notification  
    val notification: Notification = NotificationCompat.Builder(this, CHANNEL_ID)  
        .setSmallIcon(android.R.drawable.ic_dialog_info)  
        .setContentTitle("Background Service Running")  
        .setContentText("The service is working in the background.")  
        .setPriority(NotificationCompat.PRIORITY_DEFAULT)  
        .build()  
  
    // Show the notification  
    val notificationManager = getSystemService(Context.NOTIFICATION_SERVICE) as  
NotificationManager  
    notificationManager.notify(1, notification)  
}  
}
```



**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: 7

Class: TYIT

MainActivity.kt

```
package com.example.prac7_not_serv
```

```
import android.content.Intent
```

```
import android.support.v7.app.AppCompatActivity
```

```
import android.os.Bundle
```

```
import android.widget.Button
```

```
class MainActivity : AppCompatActivity() {
```

```
    override fun onCreate(savedInstanceState: Bundle?) {
```

```
        super.onCreate(savedInstanceState)
```

```
        setContentView(R.layout.activity_main)
```

```
        val startServiceButton: Button = findViewById(R.id.startservice)
```

```
        // Start the service when the button is clicked
```

```
        startServiceButton.setOnClickListener {
```

```
            val serviceIntent = Intent(this, MyService::class.java)
```

```
            startService(serviceIntent)
```

```
        }
```

```
    }
```

```
}
```



**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: 7

Class: TYIT

activitymain.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"
```

```
    android:gravity="center">
```

```
<!-- Button to start the service -->
```

```
<Button
```

```
    android:id="@+id/startservice"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:text="Start Service" />
```

```
</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: 7

Class: TYIT

OUTPUT:

