



**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: 6

Class: TYIT

Practical No : 6

AIM: Programs on Intents, Events, Listeners and Adapters The Android Intent Class, Using Events and Event Listeners

- **6a Intents**

Code :

Activity_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.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">

<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="200dp"
    android:layout_marginBottom="344dp"
    android:text="Hello World!"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent" />

<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/button"
    android:text="click to invoke implicit intent"
    app:layout_constraintBottom_toTopOf="@+id/textView2"
    app:layout_constraintTop_toTopOf="parent"
```



**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: 6

Class: TYIT

```
tools:layout_editor_absoluteX="53dp" />
```

```
<Button  
    android:id="@+id/button2"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:text="click to invoke explicit intent"  
    app:layout_constraintTop_toBottomOf="@id/textView2"  
    app:layout_constraintBottom_toBottomOf="parent"  
    tools:layout_editor_absoluteX="53dp" />
```

```
</android.support.constraint.ConstraintLayout>
```

MainActivity.Kt :

```
package com.example.newpract
```

```
import android.support.v7.app.AppCompatActivity  
import android.os.Bundle  
import android.support.v7.app.AlertDialog  
import android.widget.Button  
import android.widget.Toast  
import android.content.Intent  
import android.net.Uri  
import kotlinx.android.synthetic.main.activity_main.*
```

```
class MainActivity : AppCompatActivity() {  
    override fun onCreate(savedInstanceState: Bundle?) {  
        super.onCreate(savedInstanceState)  
        setContentView(R.layout.activity_main)  
  
        button.setOnClickListener {  
            intent = Intent(Intent.ACTION_VIEW)  
            intent.setData(Uri.parse("https://www.google.com"))  
            startActivity(intent)  
        }  
    }  
}
```



**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: 6

Class: TYIT

```
button2.setOnClickListener() {  
    intent = Intent(this,MainActivity2::class.java)  
    startActivity(intent)  
}  
}  
}
```

activity_main2.xml :

```
<?xml version="1.0" encoding="utf-8"?>  
<android.support.constraint.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=".MainActivity2">  
  
</android.support.constraint.ConstraintLayout>
```

MainActivity2.kt:

```
package com.example.newpract  
  
import android.support.v7.app.AppCompatActivity  
import android.os.Bundle  
  
class MainActivity2 : AppCompatActivity() {  
    override fun onCreate(savedInstanceState: Bundle?) {  
        super.onCreate(savedInstanceState)  
        setContentView(R.layout.activity_main2)  
    }  
}
```



**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: 6

Class: TYIT

strings.xml:

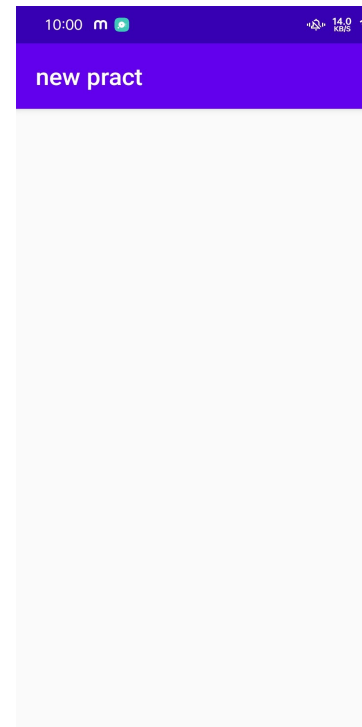
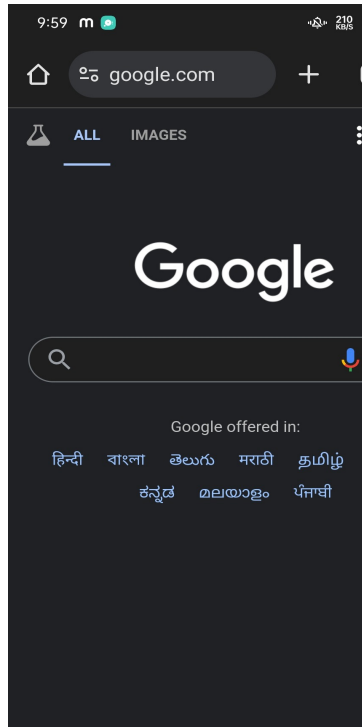
```
<resources>
    <string name="app_name">new pract</string>
    <string name="button">click button</string>
    <string name="dialogTitle">Delete</string>

    <string name="dialogMessage">Deleting file may harm your system</string>
</resources>
```

Build.gradle(:app):

```
id 'kotlin-android'
id 'kotlin-android-extensions'
```

OUTPUT:





**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: 6

Class: TYIT

6B AIM: Using Events and Event Listeners.

SOLUTION:

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 demonstrate OnClickListener -->

    <Button

        android:id="@+id/buttonClick"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Click Me"

        android:layout_marginBottom="20dp" />

    <!-- ImageButton to demonstrate OnLongClickListener -->

    <ImageButton

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



**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: 6

Class: TYIT

```
android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:src="@android:drawable/ic_menu_info_details"

android:contentDescription="Long Press Me"

android:layout_marginBottom="20dp" />
```

```
<!-- TextView to demonstrate onTouchListener -->
```

```
<TextView
```

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

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:text="Touch me!"

    android:textSize="18sp" />
```

```
</LinearLayout>
```

MainActivity.kt:

```
package com.example.prac6_event
```

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

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

```
import android.view.MotionEvent
```

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



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: 6

Class: TYIT

```
import android.widget.ImageButton
```

```
import android.widget.TextView
```

```
import android.widget.Toast
```

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

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

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

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

```
        // 1. OnClickListener for the button
```

```
        val buttonClick: Button = findViewById(R.id.buttonClick)
```

```
        buttonClick.setOnClickListener {
```

```
            // Show a toast message when button is clicked
```

```
            Toast.makeText(this, "Button clicked!", Toast.LENGTH_SHORT).show()
```

```
        }
```

```
        // 2. OnLongClickListener for the ImageButton
```

```
        val buttonLongClick: ImageButton = findViewById(R.id.buttonLongClick)
```

```
        buttonLongClick.setOnLongClickListener {
```

```
            // Show a toast message when the ImageButton is long-pressed
```

```
            Toast.makeText(this, "Image Button long-clicked!",  
                Toast.LENGTH_SHORT).show()
```

```
            true // Return true to indicate the event was handled
```



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: 6

Class: TYIT

}

// 3. OnTouchListener for the TextView

val textViewTouch: TextView = findViewById(R.id.textViewTouch)

textViewTouch.setOnTouchListener { view, motionEvent ->

when (motionEvent.action) {

MotionEvent.ACTION_DOWN -> {

// Show a toast message when touch starts

Toast.makeText(this, "Touch started on TextView!",
Toast.LENGTH_SHORT).show()

true

}

MotionEvent.ACTION_MOVE -> {

// Show a toast message while touching and moving

Toast.makeText(this, "Touch moving on TextView!",
Toast.LENGTH_SHORT).show()

true

}

MotionEvent.ACTION_UP -> {

// Show a toast message when touch is released

Toast.makeText(this, "Touch released from TextView!",
Toast.LENGTH_SHORT).show()

true



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: 6

Class: TYIT

```
}  
else -> false  
}  
}  
}  
}  
}
```

OUTPUT:

