

Experiment 5

Develop an android application to understand passing data through Intent

Activity_main.kt

```
1. package com.example.intentfundamentals
2.
3. import android.content.Intent
4. import androidx.appcompat.app.AppCompatActivity
5. import android.os.Bundle
6. import kotlinx.android.synthetic.main.activity_main.*
7.
8. class MainActivity : AppCompatActivity() {
9.     override fun onCreate(savedInstanceState: Bundle?) {
10.         super.onCreate(savedInstanceState)
11.         setContentView(R.layout.activity_main)
12.
13.         submitBtn.setOnClickListener {
14.             val entName = nameInput.text.toString()
15.             val entAge = ageInput.text.toString().toInt()
16.             val entCountry = countryInput.text.toString()
17.             val user = User(entName, entAge, entCountry)
18.
19.             //initiating an explicit intent
20.             Intent(this, DisplayInfo::class.java).also{
21.                 it.putExtra("EXTRA_USER",user)
22.                 //start the initiated intent
23.                 startActivity(it)
24.             }
25.
26.         }
27.     }
28. }
```

Display_info.kt

```
1. package com.example.intentfundamentals
2.
3. import androidx.appcompat.app.AppCompatActivity
4. import android.os.Bundle
5. import android.widget.TextView
6.
7.
8. class DisplayInfo : AppCompatActivity() {
9.     lateinit var tv_uName: TextView;
10.    lateinit var tv_uAge: TextView;
11.    lateinit var tv_uLoc: TextView;
12.    override fun onCreate(savedInstanceState: Bundle?) {
13.        super.onCreate(savedInstanceState)
14.        setContentView(R.layout.activity_display_info)
15.        tv_uName = findViewById(R.id.tv_username);
16.        tv_uAge = findViewById(R.id.tv_userage);
17.        tv_uLoc = findViewById(R.id.tv_userloc);
18.    }
```



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```
19.         val userObj =
20.             intent.getSerializableExtra("EXTRA_USER") as User //typecast the intent to
                User class type
21.             //Note: We have to typecast the intent obj to User class type cuz it was return
                ing a serializable type obj
22.
23.         tv_uName.text = userObj.name
24.         tv_uAge.text = userObj.age.toString()
25.         tv_uLoc.text = userObj.country
26.     }
27. }
```

Data class: User.kt

```
1. package com.example.intentfundamentals
2.
3. import java.io.Serializable
4.
5. data class User (
6.     val name: String,
7.     val age: Int,
8.     val country: String
9. ): Serializable
10.
11.
12. /*
13.  * In order to make this class's file obj accessible between multiple activities we have
        to extend
14.  * our User class from the 'serializable' interface that basically tells the kotlin comp
        iler to make
15.  * this class obj available and sharable b/w activities.
16.  */
```

Activity_main.xml

```
1. <?xml version="1.0" encoding="utf-8"?>
2. <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.androi
        d.com/apk/res/android"
3.     xmlns:app="http://schemas.android.com/apk/res-auto"
4.     xmlns:tools="http://schemas.android.com/tools"
5.     android:layout_width="match_parent"
6.     android:layout_height="match_parent"
7.     tools:context=".MainActivity">
8.
9.     <EditText
10.         android:id="@+id/nameInput"
```

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```
11.         android:layout_width="0dp"
12.         android:layout_height="wrap_content"
13.         android:layout_marginStart="@dimen/marrgin_wide"
14.         android:layout_marginTop="76dp"
15.         android:layout_marginEnd="@dimen/marrgin_wide"
16.         android:fontFamily="monospace"
17.         android:hint="@string/hint_name"
18.         android:inputType="text"
19.         android:textAlignment="center"
20.         android:textSize="18sp"
21.         android:textStyle="bold"
22.         app:layout_constraintEnd_toEndOf="parent"
23.         app:layout_constraintHorizontal_bias="0.0"
24.         app:layout_constraintStart_toStartOf="parent"
25.         app:layout_constraintTop_toBottomOf="@+id/app_title" />
26.
27.     <EditText
28.         android:id="@+id/ageInput"
29.         android:layout_width="0dp"
30.         android:layout_height="wrap_content"
31.         android:layout_marginStart="@dimen/marrgin_wide"
32.         android:layout_marginTop="68dp"
33.         android:layout_marginEnd="@dimen/marrgin_wide"
34.         android:fontFamily="monospace"
35.         android:hint="@string/hint_age"
36.         android:inputType="text"
37.         android:textAlignment="center"
38.         android:textSize="18sp"
39.         android:textStyle="bold"
40.         app:layout_constraintEnd_toEndOf="parent"
41.         app:layout_constraintHorizontal_bias="0.5"
42.         app:layout_constraintStart_toStartOf="parent"
43.         app:layout_constraintTop_toBottomOf="@+id/nameInput" />
44.
45.     <Button
46.         android:id="@+id/submitBtn"
47.         android:layout_width="wrap_content"
48.         android:layout_height="wrap_content"
49.         android:layout_marginTop="76dp"
50.         android:fontFamily="monospace"
51.         android:text="@string/submit_btn_txt"
52.         android:textAlignment="center"
53.         android:textSize="18sp"
54.         android:textStyle="bold"
55.         app:layout_constraintEnd_toEndOf="parent"
56.         app:layout_constraintHorizontal_bias="0.5"
57.         app:layout_constraintStart_toStartOf="parent"
58.         app:layout_constraintTop_toBottomOf="@+id/countryInput" />
59.
60.     <EditText
61.         android:id="@+id/countryInput"
62.         android:layout_width="0dp"
63.         android:layout_height="wrap_content"
64.         android:layout_marginStart="@dimen/marrgin_wide"
65.         android:layout_marginTop="76dp"
66.         android:layout_marginEnd="@dimen/marrgin_wide"
67.         android:fontFamily="monospace"
```

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```
68.         android:hint="@string/hint_country"
69.         android:inputType="text"
70.         android:textAlignment="center"
71.         android:textSize="18sp"
72.         android:textStyle="bold"
73.         app:layout_constraintEnd_toEndOf="parent"
74.         app:layout_constraintHorizontal_bias="0.5"
75.         app:layout_constraintStart_toStartOf="parent"
76.         app:layout_constraintTop_toBottomOf="@+id/ageInput" />
77.
78.     <TextView
79.         android:id="@+id/app_title"
80.         android:layout_width="wrap_content"
81.         android:layout_height="wrap_content"
82.         android:layout_marginTop="48dp"
83.         android:fontFamily="monospace"
84.         android:text="@string/app_title_txt"
85.         android:textAlignment="center"
86.         android:textColor="#3F51B5"
87.         android:textSize="30sp"
88.         android:textStyle="bold"
89.         app:layout_constraintEnd_toEndOf="parent"
90.         app:layout_constraintHorizontal_bias="0.498"
91.         app:layout_constraintStart_toStartOf="parent"
92.         app:layout_constraintTop_toTopOf="parent" />
93. </androidx.constraintlayout.widget.ConstraintLayout>
```

Display_info.xml

```
1. <?xml version="1.0" encoding="utf-8"?>
2. <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
3.     xmlns:app="http://schemas.android.com/apk/res-auto"
4.     xmlns:tools="http://schemas.android.com/tools"
5.     android:layout_width="match_parent"
6.     android:layout_height="match_parent"
7.     tools:context=".DisplayInfo">
8.
9.     <TextView
10.         android:id="@+id/app_title2"
11.         android:layout_width="wrap_content"
12.         android:layout_height="wrap_content"
13.         android:layout_marginTop="112dp"
14.         android:fontFamily="monospace"
15.         android:text="@string/app_title2_txt"
16.         android:textSize="30sp"
17.         android:textStyle="bold"
18.         app:layout_constraintEnd_toEndOf="parent"
19.         app:layout_constraintHorizontal_bias="0.498"
20.         app:layout_constraintStart_toStartOf="parent"
21.         app:layout_constraintTop_toTopOf="parent" />
22.
```

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```
23. <TextView
24.     android:id="@+id/tv_username"
25.     style="@style/tv_infoDisplay"
26.     android:layout_marginTop="@dimen/margin_top"
27.     app:layout_constraintEnd_toEndOf="parent"
28.     app:layout_constraintHorizontal_bias="0.498"
29.     app:layout_constraintStart_toStartOf="parent"
30.     app:layout_constraintTop_toBottomOf="@+id/app_title2" />
31.
32. <TextView
33.     android:id="@+id/tv_userage"
34.     style="@style/tv_infoDisplay"
35.     android:layout_width="0dp"
36.     android:layout_height="wrap_content"
37.     android:layout_marginTop="32dp"
38.     app:layout_constraintEnd_toEndOf="parent"
39.     app:layout_constraintHorizontal_bias="0.5"
40.     app:layout_constraintStart_toStartOf="parent"
41.     app:layout_constraintTop_toBottomOf="@+id/tv_username" />
42.
43. <TextView
44.     android:id="@+id/tv_userloc"
45.     style="@style/tv_infoDisplay"
46.     android:layout_width="match_parent"
47.     android:layout_height="wrap_content"
48.     android:layout_marginTop="32dp"
49.     app:layout_constraintTop_toBottomOf="@+id/tv_userage"
50.     tools:layout_editor_absoluteX="16dp" />
51. </androidx.constraintlayout.widget.ConstraintLayout>
```

Screenshots:

