Talanay, Jan Mikhail Date: June 15, 2022 Section: OTIS1 Subject: MOBDEVT

A. XML Layout (Code)

```
<?xml version="1.0" encoding="utf-8"?>
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">
         android:id="@+id/btnLogin"
        android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="32dp"
android:text="@string/login"
         app:layout constraintEnd toEndOf="parent"
         app:layout constraintStart toStartOf="parent"
         app:layout_constraintTop_toBottomOf="@+id/textInputLayout3" />
        android:id="@+id/textInputLayout2"
        android:layout_width="300dp"
        android:layout_height="wrap_content"
android:layout_marginTop="32dp"
         app:layout_constraintEnd toEndOf="parent"
         app:layout constraintStart toStartOf="parent"
         app:layout constraintTop toTopOf="parent">
             android:id="@+id/UserName"
             android:layout width="300dp"
             android:layout height="wrap content"
             android:hint="@string/username"
             android:inputType="textPersonName" />
        android:id="@+id/textInputLayout3"
        android:layout_width="300dp"
android:layout_height="wrap_content"
android:layout_marginStart="1dp"
android:layout_marginTop="32dp"
         android:layout marginEnd="1dp"
         app:layout_constraintEnd_toEndOf="parent"
         app:layout_constraintStart_toStartOf="parent"
         app:layout_constraintTop_toBottomOf="@+id/textInputLayout2"
         app:passwordToggleEnabled="true">
```

B. Main Activity File Source Code (KOTLIN)

```
class MainActivity : AppCompatActivity() {
    private lateinit var binding: ActivityMainBinding
    private var attempts: Int =
    private val username = arrayOf<String>("JanM", "JoseT", "SharT", "test4")
private val password = arrayOf<String>("12345", "1234", "123456", "1236")
    private var userfound: Boolean = false
    private var passfound: Boolean = false
         super.onCreate(savedInstanceState)
         binding = ActivityMainBinding.inflate(layoutInflater)
         val view = binding.root
         setContentView(view)
         binding.btnLogin.setOnClickListener{
              val user = binding.UserName.text
              val pass = binding.Password.text
              if(attempts <= 3) {</pre>
                  if(user.toString().equals(username[0], true) &&
pass.toString().equals(password[0],true)
                       user.toString().equals(username[1], true) &&
pass.toString().equals(password[1],true)
                      user.toString().equals(username[2], true) &&
pass.toString().equals(password[2],true)
                      user.toString().equals(username[3], true) &&
pass.toString().equals(password[3],true)){
                      userfound = true
                      passfound = true
invalid login attempts!", Toast.LENGTH_SHORT).show()
                  exitProcess(-1)
```

```
if (userfound) {
            if (passfound) {
                val snack = Snackbar.make(it, "Hi, $user, Welcome to Android-
               snack.setAction("Show Details...") { displayToast() }
                attempts = 1
                passfound = false
                addTextView("Invalid Attempt number $attempts:
${Calendar.getInstance().time}")
                attempts+
            userfound = false
            addTextView("Invalid Attempt number $attempts:
${Calendar.getInstance().time}")
            attempts+
   }
   Toast.makeText(this, "Login Successful: ${Calendar.getInstance().time}",
Foast.LENGTH SHORT).show()
private fun addTextView(text: String){
   val textview1 = TextView(this)
textview1.text = text
   textview1.textSize = 16f
   textview1.textAlignment = View.TEXT_ALIGNMENT_CENTER
   binding.layout1.addView(textview1)
```

C. Screen Record a short video demo (10-15 seconds) of your working app showing the accomplished functionalities ..

https://www.youtube.com/watch?v=cvXyC7FmwuM

D. your self-assessment (what have you learned?).

In my self-assessment, I have learned the basics of the new features that was introduce to us, like using View bindings, how to use for looping and arrays in an application, what's the purpose of the String Resource and use and manipulate The text, Snack Bar, and Toast for a better experience in using my application, and have a general idea of how a login app works