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| **학번 : 201911204, 이름 : 이주형** |
| **2023년 04주차 실습 체크 리스트** |
| |  |  | | --- | --- | | **실습 1** | **완성** | | **실습 2** | **완성** | |
| **실습 1 : [ LinearLayout과 FrameLayout & TableLayout**  **+ Resource id 획득 실습]** |
| **activity\_main.xml** |
| <?xml version="1.0" encoding="utf-8"?> <LinearLayout 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:orientation="vertical"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  tools:context=".MainActivity">  <FrameLayout  android:id="@+id/frameLayout"  android:layout\_weight="1"  android:layout\_width="match\_parent"  android:layout\_height="0dp"  android:layout\_margin="15dp">   <ImageView  android:id="@+id/arms"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/arms" />   <ImageView  android:id="@+id/body"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/body" />   <ImageView  android:id="@+id/ears"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/ears" />   <ImageView  android:id="@+id/eyebrows"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/eyebrows" />   <ImageView  android:id="@+id/eyes"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/eyes" />   <ImageView  android:id="@+id/glasses"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/glasses" />   <ImageView  android:id="@+id/hat"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/hat" />   <ImageView  android:id="@+id/mouth"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/mouth" />   <ImageView  android:id="@+id/mustache"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/mustache" />   <ImageView  android:id="@+id/nose"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/nose" />   <ImageView  android:id="@+id/shoes"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/shoes" />  </FrameLayout>   <TableLayout  android:id="@+id/tableLayout"   app:layout\_constraintStart\_toStartOf="parent"  app:layout\_constraintEnd\_toEndOf="parent"  app:layout\_constraintTop\_toBottomOf="@id/frameLayout"  app:layout\_constraintBottom\_toBottomOf="parent"   android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">   <TableRow  android:gravity="center"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">  <CheckBox  android:id="@+id/check1"  android:checked="true"  android:text="arms"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  <CheckBox  android:id="@+id/check2"  android:checked="true"  android:text="ears"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  </TableRow>  <TableRow  android:gravity="center"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">  <CheckBox  android:id="@+id/check3"  android:checked="true"   android:text="eyebrows"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  <CheckBox  android:id="@+id/check4"  android:checked="true"   android:text="eyes"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  </TableRow>   <TableRow  android:gravity="center"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">  <CheckBox  android:id="@+id/check5"  android:checked="true"   android:text="glasses"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  <CheckBox  android:id="@+id/check6"  android:checked="true"   android:text="hat"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  </TableRow>   <TableRow  android:gravity="center"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">  <CheckBox  android:id="@+id/check7"  android:checked="true"   android:text="mouth"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  <CheckBox  android:id="@+id/check8"  android:checked="true"   android:text="mustache"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  </TableRow>   <TableRow  android:gravity="center"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">  <CheckBox  android:id="@+id/check9"  android:checked="true"   android:text="nose"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  <CheckBox  android:id="@+id/check10"  android:checked="true"   android:text="shoes"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  </TableRow>  </TableLayout> </LinearLayout> |
| **MainActivity.kt** |
| package com.frost.lab\_assignment01  import androidx.appcompat.app.AppCompatActivity import android.os.Bundle import android.view.View import android.widget.CheckBox import android.widget.ImageView import com.frost.lab\_assignment01.databinding.ActivityMainBinding  class MainActivity : AppCompatActivity() {  lateinit var binding:ActivityMainBinding  lateinit var checkBoxArr:ArrayList<CheckBox>  override fun onCreate(savedInstanceState: Bundle?) {  super.onCreate(savedInstanceState)  binding = ActivityMainBinding.inflate(*layoutInflater*)  setContentView(binding.*root*)   init()  }  private fun init(){  checkBoxArr = *arrayListOf*(binding.check1, binding.check2, binding.check3, binding.check4,  binding.check5, binding.check6, binding.check7, binding.check8, binding.check9, binding.check10)  for(checkbox in checkBoxArr){  checkbox.setOnCheckedChangeListener **{** button, isChecked **->** val imageId = *resources*.getIdentifier(button.*text*.toString(), "id",*packageName*)  val imageView = findViewById<ImageView>(imageId)  if(isChecked){  imageView.*visibility*= View.*VISIBLE* }else{  imageView.*visibility* = View.*INVISIBLE* }  **}** }  } } |
| **실행결과** |
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| **실습2 : [ ConstraintLayout과 FrameLayout & TableLayout**  **+ Resource id 획득 실습]** |
| **activity\_main.xml** |
| <?xml version="1.0" encoding="utf-8"?> <androidx.constraintlayout.widget.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">   <FrameLayout  android:id="@+id/frameLayout"   android:layout\_width="match\_parent"  android:layout\_height="0dp"  android:layout\_margin="15dp"  app:layout\_constraintBottom\_toTopOf="@id/tableLayout"  app:layout\_constraintEnd\_toEndOf="parent"  app:layout\_constraintStart\_toStartOf="parent"  app:layout\_constraintTop\_toTopOf="parent">   <ImageView  android:id="@+id/arms"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/arms" />   <ImageView  android:id="@+id/body"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/body" />   <ImageView  android:id="@+id/ears"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/ears" />   <ImageView  android:id="@+id/eyebrows"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/eyebrows" />   <ImageView  android:id="@+id/eyes"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/eyes" />   <ImageView  android:id="@+id/glasses"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/glasses" />   <ImageView  android:id="@+id/hat"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/hat" />   <ImageView  android:id="@+id/mouth"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/mouth" />   <ImageView  android:id="@+id/mustache"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/mustache" />   <ImageView  android:id="@+id/nose"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/nose" />   <ImageView  android:id="@+id/shoes"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:src="@drawable/shoes" />  </FrameLayout>   <TableLayout  android:id="@+id/tableLayout"   app:layout\_constraintStart\_toStartOf="parent"  app:layout\_constraintEnd\_toEndOf="parent"  app:layout\_constraintTop\_toBottomOf="@id/frameLayout"  app:layout\_constraintBottom\_toBottomOf="parent"   android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">   <TableRow  android:gravity="center"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">  <CheckBox  android:id="@+id/check1"  android:checked="true"  android:text="arms"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  <CheckBox  android:id="@+id/check2"  android:checked="true"  android:text="ears"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  </TableRow>  <TableRow  android:gravity="center"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">  <CheckBox  android:id="@+id/check3"  android:checked="true"   android:text="eyebrows"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  <CheckBox  android:id="@+id/check4"  android:checked="true"   android:text="eyes"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  </TableRow>   <TableRow  android:gravity="center"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">  <CheckBox  android:id="@+id/check5"  android:checked="true"   android:text="glasses"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  <CheckBox  android:id="@+id/check6"  android:checked="true"   android:text="hat"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  </TableRow>   <TableRow  android:gravity="center"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">  <CheckBox  android:id="@+id/check7"  android:checked="true"   android:text="mouth"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  <CheckBox  android:id="@+id/check8"  android:checked="true"   android:text="mustache"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  </TableRow>   <TableRow  android:gravity="center"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">  <CheckBox  android:id="@+id/check9"  android:checked="true"   android:text="nose"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  <CheckBox  android:id="@+id/check10"  android:checked="true"   android:text="shoes"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"/>  </TableRow>  </TableLayout>  </androidx.constraintlayout.widget.ConstraintLayout> |
| **MainActivity.kt** |
| package com.frost.lab\_assignment01  import androidx.appcompat.app.AppCompatActivity import android.os.Bundle import android.view.View import android.widget.CheckBox import android.widget.ImageView import com.frost.lab\_assignment01.databinding.ActivityMainBinding  class MainActivity : AppCompatActivity() {  lateinit var binding:ActivityMainBinding  lateinit var checkBoxArr:ArrayList<CheckBox>  override fun onCreate(savedInstanceState: Bundle?) {  super.onCreate(savedInstanceState)  binding = ActivityMainBinding.inflate(layoutInflater)  setContentView(binding.root)   init()  }  private fun init(){  checkBoxArr = arrayListOf(binding.check1, binding.check2, binding.check3, binding.check4,  binding.check5, binding.check6, binding.check7, binding.check8, binding.check9, binding.check10)  for(checkbox in checkBoxArr){  checkbox.setOnCheckedChangeListener **{** button, isChecked **->** val imageId = resources.getIdentifier(button.text.toString(), "id",packageName)  val imageView = findViewById<ImageView>(imageId)  if(isChecked){  imageView.visibility= View.VISIBLE  }else{  imageView.visibility = View.INVISIBLE  }  **}** }  } } |
| **실행결과** |
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