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| A picture containing drawing, stop, room  Description automatically generated | **Advanced Mobile Programming**  **Practical #2** | | |
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| **Name** | **Aniket Gupta** | **Roll Number** | **21302B0053** |
| **Subject/Course** | **Advanced Mobile Programming** | | |
| **Topic** | **Programming Resources** | | |
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| **Image and Background** | | | |
| 2.a) Design an Activity with an image and its background colour set. | | | |
| **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"**   **android:background="@color/Color1"**   **tools:context=".MainActivity"**>   <**ImageView**  **android:id="@+id/imageView"**  **android:layout\_width="490dp"**  **android:layout\_height="758dp"**  **android:layout\_marginTop="160dp"**  **app:layout\_constraintTop\_toTopOf="parent"**  **app:srcCompat="@drawable/img1"**  **tools:ignore="MissingConstraints"**  **tools:layout\_editor\_absoluteX="5dp"** />   <**TextView**  **android:id="@+id/textView"**  **android:layout\_width="176dp"**  **android:layout\_height="46dp"**   **android:background="@color/Color3"**  **android:text="Gigachad "**  **android:textAlignment="center"**   **android:textColor="@color/Color2"**  **android:textSize="34sp"**  **android:textStyle="bold"**  **app:layout\_constraintBottom\_toBottomOf="parent"**  **app:layout\_constraintEnd\_toEndOf="parent"**  **app:layout\_constraintHorizontal\_bias="0.165"**  **app:layout\_constraintStart\_toStartOf="parent"**  **app:layout\_constraintTop\_toTopOf="parent"**  **app:layout\_constraintVertical\_bias="0.094"**  **tools:ignore="MissingConstraints"** />   <**Button**  **android:id="@+id/button"**  **android:layout\_width="132dp"**  **android:layout\_height="46dp"**   **android:layout\_marginTop="144dp"**  **android:background="@color/Color3"**  **android:text="Touch Me..!!"**   **android:textColor="@color/Color2"**  **android:textSize="20sp"**  **android:textStyle="bold"**  **app:layout\_constraintEnd\_toEndOf="parent"**  **app:layout\_constraintHorizontal\_bias="0.881"**  **app:layout\_constraintStart\_toStartOf="parent"**  **app:layout\_constraintTop\_toTopOf="parent"**  **tools:ignore="MissingConstraints"** /> </**android.support.constraint.ConstraintLayout**>  **Colors.xml:**  *<?***xml version="1.0" encoding="utf-8"***?>* <**resources**>  <**color name="purple\_200"**>#FFBB86FC</**color**>  <**color name="purple\_500"**>#FF6200EE</**color**>  <**color name="purple\_700"**>#FF3700B3</**color**>  <**color name="teal\_200"**>#FF03DAC5</**color**>  <**color name="teal\_700"**>#FF018786</**color**>  <**color name="black"**>#FF000000</**color**>  <**color name="white"**>#FFFFFFFF</**color**>   <**color name="Color1"**>#606c38</**color**>  <**color name="Color2"**>#283618</**color**>  <**color name="Color3"**>#fefae0</**color**> </**resources**>  **Strings.xml:**  <**resources**>  <**string name="app\_name"**>Gigachad</**string**> </**resources**>  **OUTPUT:** | | | |
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| **On Click of a Button** | | | |
| 2.b) Design an Activity where on Click of a button the image should change. | | | |
| **MainActivity.kt**  package com.example.awp\_p2  import androidx.appcompat.app.AppCompatActivity import android.os.Bundle import android.widget.Button import android.widget.ImageView import android.widget.Toast  class MainActivity : AppCompatActivity() {  override fun onCreate(savedInstanceState: Bundle?) {  super.onCreate(savedInstanceState)  setContentView(R.layout.*activity\_main*)   val button=findViewById(R.id.*button*)as Button  val newImage=findViewById(R.id.*imageView2*)as ImageView  var flag=0    button.setOnClickListener **{** Toast.makeText(this, "yoyo bantai you get hacked", Toast.*LENGTH\_LONG*).show()  if(flag==0)  {  newImage.setImageResource(R.drawable.*img2*)  flag=1  }  else{  newImage.setImageResource(R.drawable.*img2*)  flag=0  }  **}** newImage.setOnClickListener **{** Toast.makeText(this, "yoyo yo click", Toast.*LENGTH\_LONG*).show()  newImage.setImageResource(R.drawable.*img2*)  **}** } }  **OUTPUT:** | | | |