Activity\_main

<?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"  
 android:background="#000000"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:id="@+id/ageNumber"  
 android:layout\_width="86dp"  
 android:layout\_height="27dp"  
 android:layout\_marginTop="44dp"  
 android:text="@string/enter\_age"  
 android:textColor="#FAF9F9"  
 app:layout\_constraintEnd\_toStartOf="@+id/editTextNumber"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/imageView" />  
  
 <ImageView  
 android:id="@+id/imageView"  
 android:layout\_width="605dp"  
 android:layout\_height="275dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:srcCompat="@drawable/history1"  
 tools:layout\_editor\_absoluteY="-46dp"  
 tools:ignore="MissingConstraints" />  
  
  
 <Button  
 android:id="@+id/buttonClear"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="64dp"  
 android:layout\_marginEnd="60dp"  
 android:text="@string/clear"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/editTextNumber" />  
  
  
 <Button  
 android:id="@+id/btnGenerate"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="32dp"  
 android:layout\_marginTop="64dp"  
 android:text="@string/generate\_history"  
 app:layout\_constraintEnd\_toStartOf="@+id/button2"  
 app:layout\_constraintHorizontal\_bias="0.181"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/ageNumber"  
 tools:ignore="UnknownId" />  
  
 <EditText  
 android:id="@+id/editTextNumber"  
 android:layout\_width="209dp"  
 android:layout\_height="30dp"  
 android:layout\_marginTop="44dp"  
 android:layout\_marginEnd="16dp"  
 android:ems="10"  
 android:inputType="number"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/imageView"  
 />  
  
 <TextView  
 android:id="@+id/txtResults"  
 android:layout\_width="92dp"  
 android:layout\_height="31dp"  
 android:layout\_marginTop="484dp"  
 android:text="@string/show\_results"  
 android:textColor="#FFFFFF"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.498"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

Main activity

package com.example.assignment  
  
import android.annotation.SuppressLint  
import androidx.appcompat.app.AppCompatActivity  
import android.os.Bundle  
import android.widget.Button  
import android.widget.EditText  
import android.widget.TextView  
  
class MainActivity : AppCompatActivity() {  
 @SuppressLint("WrongViewCast", "MissingInflatedId", "SetTextI18n")  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 setContentView(R.layout.activity\_main)  
  
 // Declaring the views  
 val ageNumber = findViewById<EditText>(R.id.ageNumber)  
 val btnGenerate = findViewById<Button>(R.id.btnGenerate)  
 val buttonClear = findViewById<Button>(R.id.buttonClear)  
 val txtResults = findViewById<TextView>(R.id.txtResults)  
  
 btnGenerate.setOnClickListener **{** val age = ageNumber.text.toString().toIntOrNull()  
 if (age != null) {  
 val result = when (age) {  
 in 20..30 -> "Malala Yousafzai"  
 in 30..40 -> "Amelia Earhart"  
 in 40..50 -> "Frida Kahlo"  
 in 50..60->"Michael Jackson"  
 in 60..70->"Leonardo da Vinci"  
 in 70..80->"Albert Einstein"  
 in 80..90->"Winston Churchil"  
 in 90..100->"Nelson Mandela"  
 else -> "Enter a valid age"  
 }  
 txtResults.text = "Age: $age\n${  
 when (result) {  
 "Malala Yousafzai" -> "Pakistani activist for female education and the youngest Nobel Prize laureate."  
 "Amelia Earhart" -> "American aviation pioneer and the first female aviator to fly solo across the Atlantic Ocean, known for her courage and contributions to aviation."  
 "Frida Kahlo" -> "Mexican painter known for her vibrant and often surreal self-portraits, as well as her exploration of identity, gender, and culture."  
 "Michael Jackson" -> "Iconic American singer, songwriter, and dancer, often referred to as the King of Pop for his contributions to music and dance."  
 "Leonardo da Vinci"->"Italian polymath known for his contributions to art, science, engineering, and anatomy, among other fields."  
 "Albert Einstein"->"Renowned theoretical physicist, best known for developing the theory of relativity."  
 "Winston Churchil"->"British statesman and Prime Minister who led the United Kingdom during World War II, known for his eloquent speeches and leadership during challenging times."  
 "Nelson Mandela"->"Anti-apartheid revolutionary and former President of South Africa, known for his role in ending apartheid and promoting reconciliation."  
 else -> "Enter a valid age."  
 }  
 }"  
 } else {  
 txtResults.text = "Please enter a valid age."  
 }  
 **}** buttonClear.setOnClickListener **{** ageNumber.text.clear()  
 txtResults.text = ""  
 **}** }  
}

**References**

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