1b.) Develop an android application to design a student ID card for the students of a College asper the below requirements. The ID card should have two virtual partitions divided by a horizontal divider. In the first partition, the institute logo should be placed at the top aligned to the centre. Institute name should be displayed below the logo in capital letters. In the next level the student's department must appear in capital letters. The second partition should begin with student's photo aligned to the centre. Student Name, USN, Phone Number and Address should appear below the photo in a uniform order. Design the UI according to the requirements defined. Also write the corresponding java program.

Program:

Activity_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout 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:id="@+id/relativeLayout"

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    android:background="#FFFFFF"
```

```xml
        app:layoutDescription="@xml/activity_main_scene"

        tools:context=".MainActivity">

    <TextView

        android:id="@+id/textView2"

        android:layout_width="410dp"

        android:layout_height="wrap_content"

        android:layout_alignParentStart="true"

        android:layout_alignParentTop="true"

        android:layout_alignParentEnd="true"

        android:layout_marginStart="3dp"

        android:layout_marginTop="135dp"

        android:layout_marginEnd="-2dp"

        android:backgroundTint="#2D0071"

        android:text="COLLEGE      OF      ENGINEERING      AND      MANAGEMENT\n
MANGALURU"

        android:textAlignment="center"

        android:textSize="18dp" />

    <LinearLayout

        android:layout_width="411dp"

        android:layout_height="39dp"

        android:layout_alignParentStart="true"

        android:layout_alignParentTop="true"

        android:layout_marginStart="1dp"

        android:layout_marginTop="102dp"

        android:orientation="horizontal">

        <TextView

            android:id="@+id/textView4"

            android:layout_width="wrap_content"
```

```xml
        android:layout_height="match_parent"

        android:layout_weight="1"

        android:backgroundTint="#000F65"

        android:text="SAHYADRI"

        android:textAlignment="center"

        android:textSize="26sp" />

    </LinearLayout>

    <ImageView

        android:id="@+id/imageView2"

        android:layout_width="120dp"

        android:layout_height="101dp"

        android:layout_alignParentTop="true"

        android:layout_centerHorizontal="true"

        android:layout_marginTop="-3dp"

        app:srcCompat="@drawable/clggg" />

    <LinearLayout

        android:layout_width="wrap_content"

        android:layout_height="17dp"

        android:layout_alignParentStart="true"

        android:layout_alignParentTop="true"

        android:layout_alignParentEnd="true"

        android:layout_marginStart="0dp"

        android:layout_marginTop="183dp"

        android:layout_marginEnd="-2dp"

        android:orientation="horizontal">
```

```xml
    <TextView

        android:id="@+id/textView5"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_weight="1"

        android:textAlignment="center"

        android:text="(AN AUTONOMOUS INSTITUTION)"

        android:textSize="12sp" />

</LinearLayout>

<LinearLayout

    android:layout_width="match_parent"

    android:layout_height="46dp"

    android:layout_alignParentStart="true"

    android:layout_alignParentTop="true"

    android:layout_marginStart="1dp"

    android:layout_marginTop="206dp"

    android:orientation="horizontal">

    <TextView

        android:id="@+id/textView6"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_weight="1"

        android:text="DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE
LEARNING."

        android:textAlignment="center"

        android:textColor="#BF6947"

        android:textSize="16sp" />

</LinearLayout>
```

```xml
<androidx.constraintlayout.widget.ConstraintLayout

    android:layout_width="match_parent"

    android:layout_height="591dp"

    android:layout_alignParentStart="true"

    android:layout_alignParentTop="true"

    android:layout_alignParentEnd="true"

    android:layout_marginStart="0dp"

    android:layout_marginTop="255dp"

    android:layout_marginEnd="0dp"

    android:background="#72EBFBFD"

    android:orientation="horizontal">

    <TextView

        android:id="@+id/textView7"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_marginTop="4dp"

        android:text="2021-2025"

        android:textAlignment="center"

        android:textSize="16sp"

        android:textStyle="bold"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent" />

    <LinearLayout

        android:id="@+id/linearLayout2"

        android:layout_width="408dp"

        android:layout_height="62dp"
```

```xml
        android:orientation="horizontal"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.333"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.425">

        <TextView

          android:id="@+id/textView9"

          android:layout_width="wrap_content"

          android:layout_height="wrap_content"

          android:layout_centerHorizontal="true"

          android:layout_weight="1"

          android:text="NACHIKETH S KOTIAN\n4SF21CI024"

          android:textAlignment="center"

          android:textSize="21sp"

          android:textStyle="bold" />

    </LinearLayout>

    <LinearLayout

      android:id="@+id/linearLayout3"

      android:layout_width="316dp"

      android:layout_height="128dp"

      android:orientation="horizontal"

      app:layout_constraintBottom_toBottomOf="parent"

      app:layout_constraintEnd_toEndOf="parent"

      app:layout_constraintHorizontal_bias="0.494"

      app:layout_constraintStart_toStartOf="parent"
```

```xml
        app:layout_constraintTop_toBottomOf="@+id/linearLayout2"

        app:layout_constraintVertical_bias="0.068">


        <TextView

            android:id="@+id/textView10"

            android:layout_width="wrap_content"

            android:layout_height="wrap_content"

            android:layout_centerHorizontal="true"

            android:layout_weight="1"

            android:text="MANGALORE "

            android:textAlignment="center"

            android:textSize="15sp" />

    </LinearLayout>


    <ImageView

        android:id="@+id/imageView"

        android:layout_width="153dp"

        android:layout_height="136dp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.076"

        app:srcCompat="@drawable/pic" />

  </androidx.constraintlayout.widget.ConstraintLayout>

</RelativeLayout>
```

MainActivity.java:

package com.example.idcard;

import

androidx.appcompat.app.AppCompatActivit

y;import android.os.Bundle;

public class MainActivity extends

  AppCompatActivity {protected void

  onCreate(Bundle savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_main);

  }

}