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Reg. No.	**:**	**18 5001 194**	**Date**	**:** 23/07/2021
Subject	**:**	**UCS1711---Mobile Application Development Lab**		

QUESTION :

Ex. No. 1 Application using GUI components, Font and Colours Generate a registration form for a hospital to register new patient details as below:

a. Assign a title for the registration form(TextView- textSize, textStyle , typeface)

b. Name. Specify some font and colour. (use TextView, EditText-standard)

c. Address (use TextView, EditText-standard)

d. Age (TextView, EditText)

e. Date of Birth (DatePicker)

f. Gender (RadioButton)

g. Marital Status (Spinner)

h. Contact Number (EditText- inputType, phoneNumber)

i. Registration time (TimePicker)

j. Addiction (Smoking, Alcohol) (CheckBox)

k. Submit (Button)

l. Reset (Button)

CODE :

Activity_main.xml :

```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">
    <LinearLayout
        android:layout_width="349dp"
        android:layout_height="686dp"
        android:layout_marginTop="8dp"
        android:orientation="vertical"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.933">
        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="71dp"
            android:orientation="horizontal">
            <TextView
                android:id="@+id/Name"
                android:layout_width="45dp"
                android:layout_height="54dp"
                android:layout_weight="1"
                android:textStyle="bold"
                android:textSize="20sp"
                android:text="Name" />
            <EditText
                android:id="@+id/name"
                android:layout_width="wrap_content"
                android:layout_height="match_parent"
                android:layout_weight="1"
```

```xml
            android:ems="10"
            android:inputType="textPersonName"
        />
        </LinearLayout>
        <LinearLayout
    android:layout_width="match_parent"
    android:layout_height="71dp"
    android:orientation="horizontal">
            <TextView
    android:id="@+id/Address"
    android:layout_width="45dp"
    android:layout_height="61dp"
    android:layout_weight="1"
    android:textStyle="bold"
    android:textSize="20sp"
    android:text="Address" />
            <EditText
    android:id="@+id/address"
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:ems="10"
    android:inputType="textPostalAddress" />
        </LinearLayout>
        <LinearLayout
    android:layout_width="match_parent"
    android:layout_height="71dp"
    android:orientation="horizontal">
            <TextView
    android:id="@+id/Age"
    android:layout_width="45dp"
    android:layout_height="54dp"
    android:layout_weight="1"
    android:textStyle="bold"
    android:textSize="20sp"
    android:text="Age" />
            <EditText
    android:id="@+id/age"
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:ems="10"
```

```xml
            android:inputType="number" />
        </LinearLayout>
        <LinearLayout
    android:layout_width="match_parent"
    android:layout_height="71dp"
    android:orientation="horizontal">
            <TextView
    android:id="@+id/DOB"
    android:layout_width="45dp"
    android:layout_height="54dp"
    android:layout_weight="1"
    android:textStyle="bold"
    android:textSize="20sp"
    android:text="DOB" />
            <EditText
    android:id="@+id/dob"
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:ems="10"
    android:inputType="date" />
        </LinearLayout>
        <LinearLayout
    android:layout_width="match_parent"
    android:layout_height="71dp"
    android:orientation="horizontal">
            <TextView
    android:id="@+id/Gender"
    android:layout_width="177dp"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:paddingTop="30dp"
    android:textStyle="bold"
    android:textSize="20sp"
    android:text="Gender" />
            <RadioGroup
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:orientation="horizontal"
    android:id="@+id/gender"
    >
```

```xml
        <RadioButton
    android:id="@+id/male"
    android:layout_width="123dp"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:text="Male" />
        <RadioButton
    android:id="@+id/female"
    android:layout_width="110dp"
    android:layout_height="71dp"
    android:layout_weight="1"
    android:text="Female" />
      </RadioGroup>
    </LinearLayout>
    <LinearLayout
  android:layout_width="match_parent"
  android:layout_height="71dp"
  android:orientation="horizontal">
        <TextView
  android:id="@+id/MaritalStatus"
  android:layout_width="wrap_content"
  android:layout_height="96dp"
  android:layout_weight="1"
  android:paddingTop="30dp"
  android:text="Marital Status"
  android:textAlignment="gravity"
  android:textSize="20sp"
  android:textStyle="bold" />
        <Spinner
  android:id="@+id/ms"
  android:layout_width="199dp"
  android:layout_height="match_parent" />
    </LinearLayout>
    <LinearLayout
  android:layout_width="match_parent"
  android:layout_height="71dp"
  android:orientation="horizontal">
        <TextView
  android:id="@+id/Phone"
  android:layout_width="128dp"
  android:layout_height="50dp"
  android:layout_weight="1"
```

```xml
            android:textStyle="bold"
            android:textSize="20sp"
            android:text="Contact" />
                <EditText
            android:id="@+id/contact"
            android:layout_width="wrap_content"
            android:layout_height="match_parent"
            android:layout_weight="1"
            android:ems="10"
            android:inputType="phone" />
        </LinearLayout>
        <LinearLayout
    android:layout_width="match_parent"
    android:layout_height="71dp"
    android:orientation="horizontal" >
                <TextView
            android:id="@+id/Registration_Date"
            android:layout_width="139dp"
            android:layout_height="50dp"
            android:layout_weight="1"
            android:textStyle="bold"
            android:textSize="20sp"
            android:text="Registration Date" />
                <EditText
            android:id="@+id/date"
            android:layout_width="wrap_content"
            android:layout_height="match_parent"
            android:layout_weight="1"
            android:ems="10"
            android:inputType="date" />
        </LinearLayout>
        <LinearLayout
    android:layout_width="match_parent"
    android:layout_height="71dp"
    android:orientation="horizontal" >
                <TextView
            android:id="@+id/Addiction"
            android:layout_width="126dp"
            android:layout_height="50dp"
            android:layout_weight="1"
            android:textStyle="bold"
            android:textSize="20sp"
```

```xml
            android:text="Addiction" />
            <CheckBox
        android:id="@+id/smoking"
        android:layout_width="wrap_content"
        android:layout_height="match_parent"
        android:layout_weight="1"
        android:text="Smoking" />
            <CheckBox
        android:id="@+id/Alcohol"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Alcohol" />
        </LinearLayout>
        <LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="horizontal">
            <Button
        android:id="@+id/submit"
        android:layout_width="105dp"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Submit"
        android:background="@color/black"
        app:layout_constraintLeft_toLeftOf="parent" />
            <Button
        android:id="@+id/reset"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Reset"
        android:background="@color/black"
        app:layout_constraintRight_toRightOf="parent" />
        </LinearLayout>
    </LinearLayout>
    <TextView
    android:id="@+id/textView"
    android:layout_width="432dp"
    android:layout_height="70dp"
    android:background="@color/black"
    android:gravity="center_horizontal"
```

```
        android:text="PATIENT REGISTRATION"
        android:textAlignment="center"
        android:textColor="@color/white"
        android:textSize="30sp"
        tools:layout_editor_absoluteX="-4dp"
        tools:layout_editor_absoluteY="-4dp" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java :

```java
package com.example.ex1_temp2;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.RadioGroup;
import android.widget.Spinner;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        final Spinner spinner = findViewById(R.id.ms);
        final EditText name = findViewById (R.id.name);
        final EditText address = findViewById(R.id.address);
        final EditText dob = findViewById(R.id.dob);
        final EditText contact = findViewById(R.id.contact);
        final EditText registerDate = findViewById(R.id.date);
        final RadioGroup gender = findViewById(R.id.gender);
```

```java
    final CheckBox smoking = findViewById(R.id.smoking);
    final CheckBox alcohol = findViewById(R.id.Alcohol);

    Button submit = findViewById(R.id.submit);
    Button reset = findViewById(R.id.reset);

    ArrayAdapter<CharSequence> adapter =
ArrayAdapter.createFromResource(this, R.array.ms ,
android.R.layout.simple_spinner_item);

adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
    spinner.setAdapter(adapter);

    reset.setOnClickListener(new View.OnClickListener(){
        @Override
        public void onClick(View v) {
            startActivity(new Intent(getApplicationContext(), MainActivity.class));
        }
    });

    submit.setOnClickListener(new View.OnClickListener(){
        @Override
        public void onClick(View v) {
            startActivity(new Intent(getApplicationContext(), MainActivity.class));
        }
    });
    }
}
```

Strings.xml :

```xml
<resources>
<string name="app_name">Ex1-temp2</string>
<string-array name="ms">
    <item>Married</item>
    <item>Single</item>
</string-array>
</resources>
```

Output :