EXERCISE 10

CREATE APP USING AUTO COMPLETE TEXT VIEW & DATE PICKER

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AUTO COMPLETE TEXT VIEW:

ACTIVITY_MAIN.XML:

```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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="20dp"
    tools:context=".MainActivity">

    <AutoCompleteTextView
        android:id="@+id/schoolID"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:completionHint="Select your School"
        android:completionThreshold="1"
        android:dropDownAnchor="@id/schoolID"
        android:hint="Select your School"
        android:popupBackground="@color/purple_200" />

    <TextView
        android:id="@+id/school_view"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="VIT-AP School"
        android:textSize="20dp"
        android:paddingBottom="20dp"
        />

</LinearLayout>
```

MAIN ACTIVITY.JAVA:

```java
package com.example.autocomplete;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.AutoCompleteTextView;

public class MainActivity extends AppCompatActivity {

    private static final String[] school=new String[]{"SCOPE","SENSE","SMEC","VSB","VSL","VISH"};

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        String[] vitap_school=getResources().getStringArray(R.array.vitschool);

        AutoCompleteTextView autoctv=findViewById(R.id.schoolID);
        ArrayAdapter<String> adapter=new ArrayAdapter<String>(this,
android.R.layout.simple_list_item_1,school);
        autoctv.setAdapter(adapter);

    }
}
```
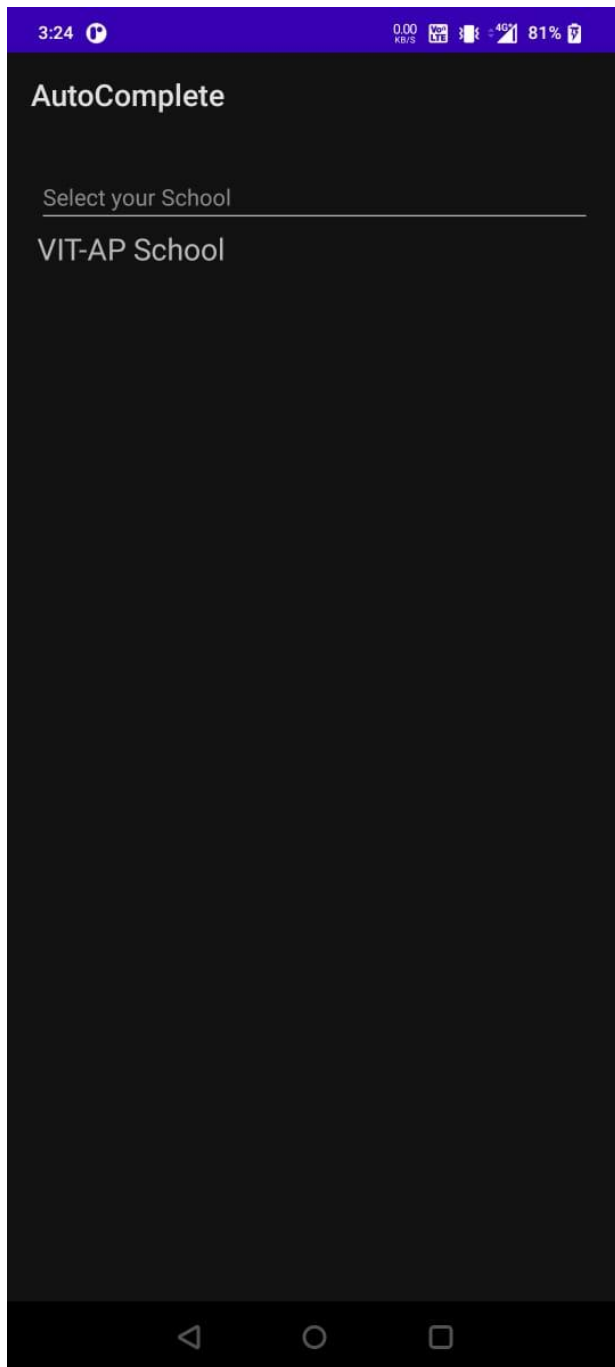
ARRAYS.XML:

```xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string-array name="vitschool">
        <item>SCOPE</item>
        <item>SENSE</item>
        <item>SMEC</item>
        <item>VSB</item>
        <item>VSL</item>
        <item>VISH</item>
    </string-array>
</resources>
```
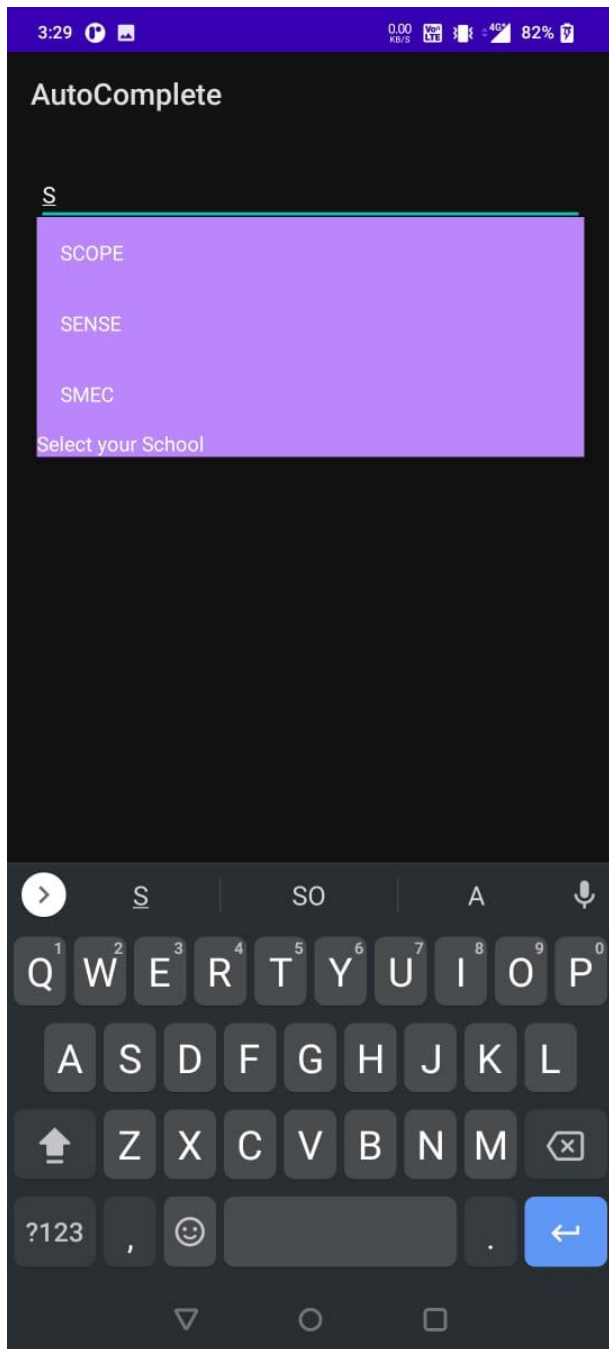
OUTPUT:

AutoComplete

Select your School

VIT-AP School

DATE PICKER:

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"
```

```xml
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/dateid"
        android:layout_width="278dp"
        android:layout_height="58dp"
        android:layout_marginTop="163dp"
        android:layout_marginBottom="74dp"
        android:textColor="#CC1010"
        android:textSize="20sp"
        app:layout_constraintBottom_toTopOf="@+id/button"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="88dp"
        android:layout_marginBottom="412dp"
        android:text="Date Picker"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="@+id/dateid"
        app:layout_constraintTop_toBottomOf="@+id/dateid" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

MAIN ACTIVITY.JAVA:

```java
package com.example.datepicker;

import androidx.appcompat.app.AppCompatActivity;

import android.app.DatePickerDialog;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.TextView;
import android.widget.Toast;

import java.util.Calendar;
import java.util.Date;
```

```java
public class MainActivity extends AppCompatActivity {
    TextView date;
    Button bt;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        date=findViewById(R.id.dateid);
        bt=findViewById(R.id.button);
        bt.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                showDatePickerDialog();
            }
        });
    }

    private void showDatePickerDialog() {
        int day,month,yr;
        Calendar cal = Calendar.getInstance();
        day = cal.get(Calendar.DAY_OF_MONTH);
        month = cal.get(Calendar.MONTH);
        yr = cal.get(Calendar.YEAR);

        DatePickerDialog datePickerDialog = new DatePickerDialog(MainActivity.this, new
DatePickerDialog.OnDateSetListener() {
            @Override
            public void onDateSet(DatePicker view, int year, int month, int day) {
                String dates = "Month/Day/Year:"+String.valueOf(day) + "/" + String.valueOf(month) + "/" +
String.valueOf(year);
                date.setText(dates);
            }
        },yr,month,day);
        datePickerDialog.show();
    }
}
```

OUTPUT:
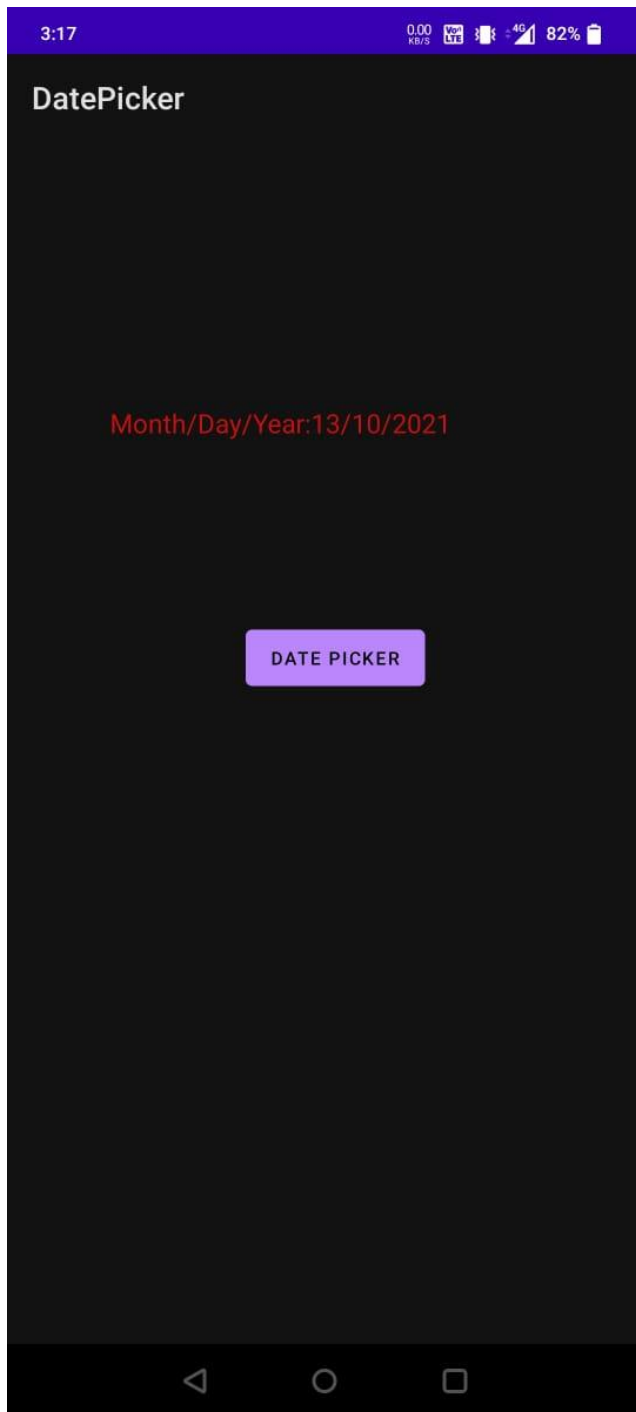
TIME PICKER:

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"
```

```xml
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="237dp"
        android:layout_height="0dp"
        android:layout_marginTop="92dp"
        android:layout_marginBottom="80dp"
        android:textAlignment="center"
        android:textColor="#8BED19"
        app:layout_constraintBottom_toTopOf="@+id/button"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="422dp"
        android:text="Time Picker"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MAIN ACTIVITY.JAVA:

```java
package com.example.timepicker;

import androidx.appcompat.app.AppCompatActivity;

import android.app.TimePickerDialog;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.TimePicker;

import java.util.Calendar;

public class MainActivity extends AppCompatActivity {
    TextView time;
    Button b;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
```

```java
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        time=findViewById(R.id.textView);
        b=findViewById(R.id.button);
        b.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                showTimePickerDialog();
            }
        });
    }

    private void showTimePickerDialog() {
        Calendar cal = Calendar.getInstance();
        int hrs = cal.get(Calendar.HOUR_OF_DAY);
        int min = cal.get(Calendar.MINUTE);

        TimePickerDialog timePickerDialog = new TimePickerDialog(MainActivity.this, new
TimePickerDialog.OnTimeSetListener() {
            @Override
            public void onTimeSet(TimePicker view, int hour, int minute) {
                String t = "Hour/Minute : "+String.valueOf(hour)+" : "+String.valueOf(minute);
                time.setText(t);
            }
        },hrs,min,false);
        timePickerDialog.show();
    }
}
```

OUTPUT: