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1.write a program to accept the username and password from the end user using the text view and edit text.

Activity_main.xml(code for layout):-

```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">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Form"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.501"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.069" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="132dp"
        android:text="Enter username : "
        android:textSize="16sp"
        app:layout_constraintBottom_toTopOf="@+id/textView3"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.112"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.0" />
```

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```xml
<EditText
    android:id="@+id/editTextTextPersonName"
    android:layout_width="232dp"
    android:layout_height="52dp"
    android:layout_marginBottom="36dp"
    android:ems="10"
    android:hint="username"
    android:inputType="textPersonName"
    app:layout_constraintBottom_toTopOf="@+id/editTextTextPassword"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="1.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="1.0" />

<TextView
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Enter password :"
    android:textSize="16sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.111"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.279" />

<EditText
    android:id="@+id/editTextTextPassword"
    android:layout_width="231dp"
    android:layout_height="52dp"
    android:layout_marginStart="8dp"
    android:ems="10"
    android:hint="password"
    android:inputType="textPassword"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.083"
    app:layout_constraintStart_toEndOf="@+id/textView3"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.272" />

<Button
```

```xml
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Submit"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.475"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.366" />

    <TextView
        android:id="@+id/textView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="The username will be displayed here"
        android:textSize="16sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.642"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/textView5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="password will be displayed here"
        android:textSize="16sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.55"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.532" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java(code for functionality):-
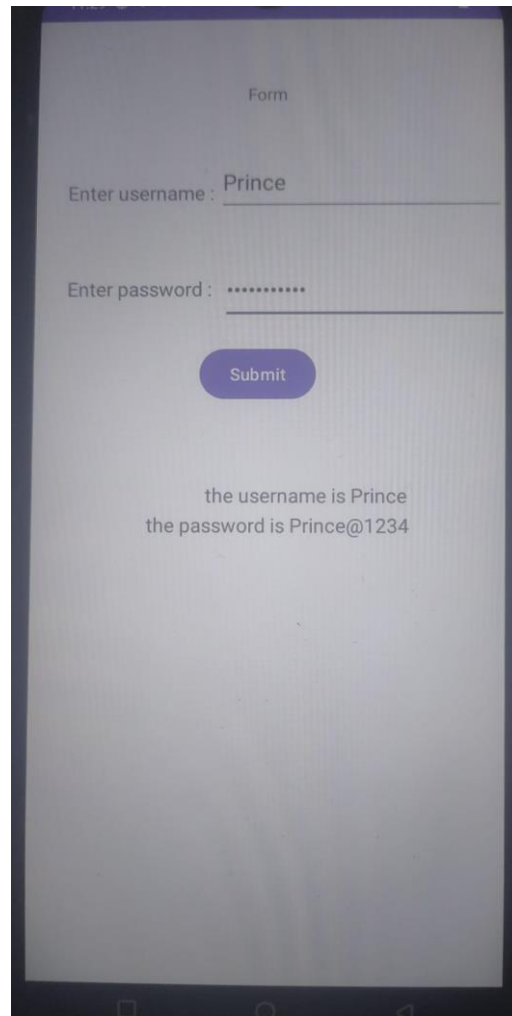```java
package com.example.practical_7;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
```

```java
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    EditText username,password;
    TextView dis,pas;
    Button submit;
    String s1;
    String s2;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        username = findViewById(R.id.editTextTextPersonName);
        password = findViewById(R.id.editTextTextPassword);
        dis = findViewById(R.id.textView4);
        pas = findViewById(R.id.textView5);
        submit = findViewById(R.id.button);
        submit.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                s1=(username.getText().toString());
                s2=(password.getText().toString());
                dis.setText("the username is " + s1);
                pas.setText("the password is " + s2);
            }
        });
    }
}
```

Output:

Fig: 6.1 display the username and password

2.write a program to accept and display personal information of the student using EditText and TextView.

Activity_main.xml(code for layout):-

```
<?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">
    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text=" Student Form"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.439"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.05" />

    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="24dp"
        android:layout_marginTop="96dp"
        android:text="Enter name"
        app:layout_constraintBottom_toTopOf="@+id/textView4"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.244" />

    <TextView
        android:id="@+id/textView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="24dp"
        android:text="Enter roll no."
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.236" />
```

```xml
<TextView
    android:id="@+id/textView5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="24dp"
    android:layout_marginTop="36dp"
    android:text="Enter Enroll no."
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView4" />

<TextView
    android:id="@+id/textView6"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="24dp"
    android:layout_marginTop="28dp"
    android:text="Enter Marks"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView5" />

<EditText
    android:id="@+id/editTextTextPersonName"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="20dp"
    android:ems="10"
    android:hint="Name"
    android:inputType="textPersonName"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.299"
    app:layout_constraintStart_toEndOf="@+id/textView3"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.136" />

<EditText
    android:id="@+id/editTextNumber"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="32dp"
    android:layout_marginTop="12dp"
    android:ems="10"
    android:hint="Roll number"
    android:inputType="number"
    app:layout_constraintStart_toEndOf="@+id/textView4"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName" />
```

```xml
<EditText
    android:id="@+id/editTextNumber2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="16dp"
    android:layout_marginTop="8dp"
    android:ems="10"
    android:hint="enroll number"
    android:inputType="number"
    app:layout_constraintStart_toEndOf="@+id/textView5"
    app:layout_constraintTop_toBottomOf="@+id/editTextNumber" />

<EditText
    android:id="@+id/editTextNumberDecimal"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="36dp"
    android:layout_marginTop="8dp"
    android:ems="10"
    android:hint="marks"
    android:inputType="numberDecimal"
    app:layout_constraintStart_toEndOf="@+id/textView6"
    app:layout_constraintTop_toBottomOf="@+id/editTextNumber2" />

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="120dp"
    android:layout_marginBottom="332dp"
    android:text="submit"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintStart_toStartOf="parent" />

<TextView
    android:id="@+id/textView7"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="148dp"
    android:layout_marginBottom="280dp"
    android:text="name will be displayed here "
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent" />

<TextView
    android:id="@+id/textView8"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
```

```xml
        android:layout_marginStart="112dp"
        android:layout_marginBottom="248dp"
        android:text="roll no. will be displayed here"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:id="@+id/textView9"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="104dp"
        android:layout_marginBottom="216dp"
        android:text="enrollment no. will be displayed here"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:id="@+id/textView10"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginEnd="156dp"
        android:layout_marginBottom="188dp"
        android:text="marks will be displayed here"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java(code for functionality):-

```java
package com.example.practical_6;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    EditText Stud_name,Stud_roll,Stud_enroll,Stud_marks;
    Button Submit;
    TextView print_name,print_roll,print_enroll,print_marks;
    String s1,s2,s3,s4;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Stud_name=findViewById(R.id.editTextTextPersonName);
```

```java
        Stud_roll=findViewById(R.id.editTextNumber);
        Stud_enroll=findViewById(R.id.editTextNumber2);
        Stud_marks=findViewById(R.id.editTextNumberDecimal);
        Submit = findViewById(R.id.button);
        print_name=findViewById(R.id.textView7);
        print_roll=findViewById(R.id.textView8);
        print_enroll=findViewById(R.id.textView9);
        print_marks=findViewById(R.id.textView10);
        Submit.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                s1=(Stud_name.getText().toString());
                s2=(Stud_roll.getText().toString());
                s3=(Stud_enroll.getText().toString());
                s4=( Stud_marks.getText().toString());
                print_name.setText("the username is " + s1);
                print_roll.setText("the roll no. is "+ s2);
                print_enroll.setText("the enroll no. is " + s3);
                print_marks.setText("the marks is "+s4);
            }
        });
    }
}
```

Output:

Fig: 4.3 accept and display the personal information of student