Practical 7

1. Write a program to accept the student information and Toast all the Value of the EditText on click event of button.
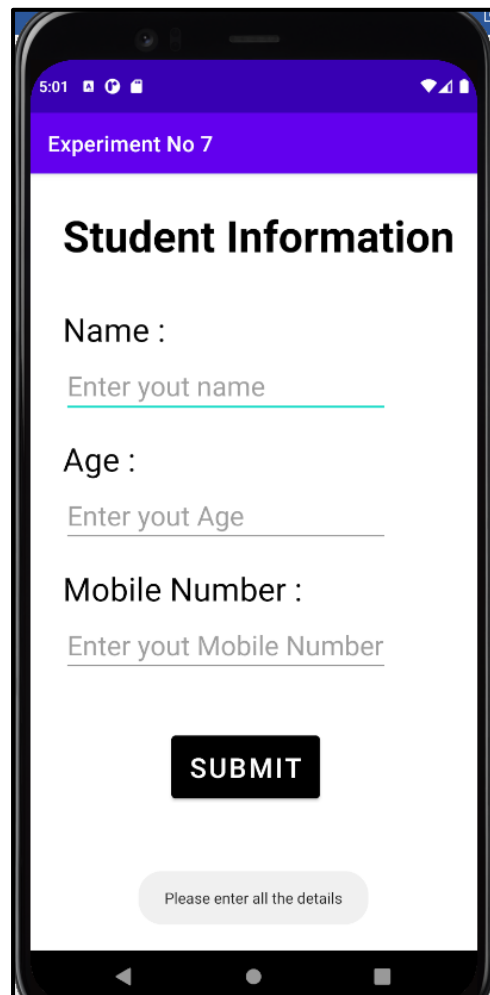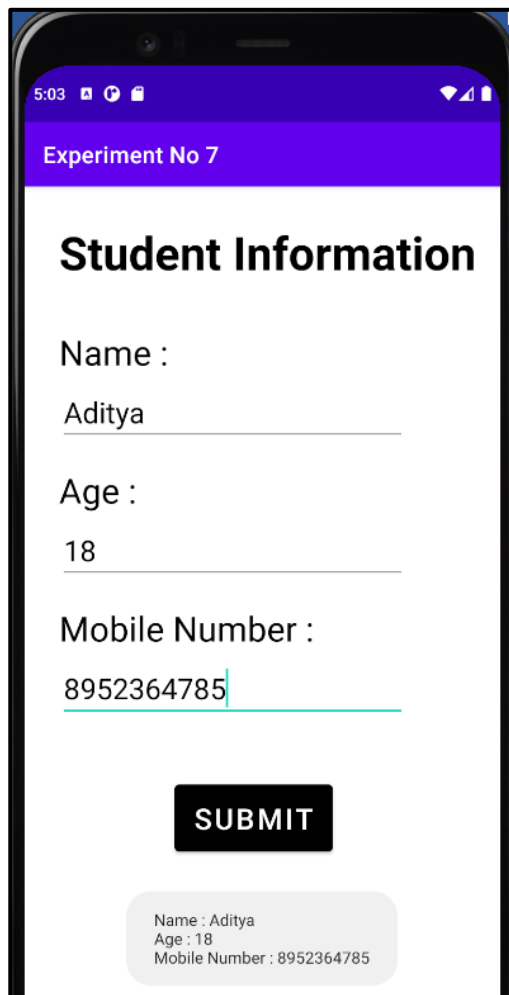
Code :

```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:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity">
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Student Information"
    android:textSize="40dp"
    android:textColor="@color/black"
    android:textStyle="bold"
    android:layout_marginTop="30dp"
    android:layout_marginLeft="30dp"
    android:id="@+id/info"
    />
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Name : "
    android:textSize="30dp"
    android:textColor="@color/black"
    android:layout_marginTop="40dp"
    android:layout_marginLeft="30dp"
    android:layout_below="@id/info"
    android:id="@+id/child"
    />
  <EditText
    android:id="@+id/name"
    android:layout_width="300dp"
    android:layout_height="wrap_content"
    android:layout_below="@+id/child"
    android:layout_alignLeft="@+id/child"
    android:layout_marginTop="5dp"
    android:hint="Enter yout name"
    android:textColor="@color/black"
    android:textSize="25dp" />
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Age : "
    android:textSize="30dp"
    android:textColor="@color/black"
    android:layout_marginTop="20dp"
    android:layout_marginLeft="30dp"
    android:layout_below="@id/name"
    />
  <EditText
    android:id="@+id/age"
    android:layout_width="300dp"
    android:layout_height="wrap_content"
    android:layout_below="@+id/name"
    android:layout_alignLeft="@+id/child"
    android:layout_marginTop="65dp"
    android:hint="Enter yout Age"
    android:textColor="@color/black"
    android:textSize="25dp" />
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Mobile Number : "
    android:textSize="30dp"
    android:textColor="@color/black"
    android:layout_marginTop="20dp"
    android:layout_marginLeft="30dp"
    android:layout_below="@id/age"
    />
  <EditText
    android:id="@+id/mobnum"
    android:layout_width="300dp"
    android:layout_height="wrap_content"
    android:layout_below="@+id/age"
    android:layout_alignLeft="@+id/child"
    android:layout_marginTop="65dp"
    android:hint="Enter yout Mobile Number"
    android:textColor="@color/black"
    android:textSize="25dp" />
  <Button
    android:id="@+id/sub"
    android:layout_width="wrap_content"
    android:layout_height="70dp"
    android:layout_below="@+id/mobnum"
    android:layout_marginLeft="130dp"
    android:layout_marginTop="50dp"
    android:backgroundTint="@color/black"
    android:text="Submit"
    android:textSize="25dp" />
</RelativeLayout>
```

Java Code :

```java
package com.example.exp7q1;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    Button submit;
    EditText name,age,mob;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        name = (EditText) findViewById(R.id.name);
        age = (EditText) findViewById(R.id.age);
        mob = (EditText) findViewById(R.id.mobnum);
        submit = (Button) findViewById(R.id.sub);
        submit.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                if(name.getText().toString().isEmpty() || age.getText().toString().isEmpty() || mob.getText().toString().isEmpty()){
                    Toast.makeText(getApplicationContext(), "Please enter all the details", Toast.LENGTH_SHORT).show();}
                else{
                    Toast.makeText(getApplicationContext(), "Name : "+name.getText().toString()+"\n"+"Age :
                    "+age.getText().toString()+"\n"+"Mobile Number : "+mob.getText().toString(),
                    Toast.LENGTH_SHORT).show();
                } }});}}
```

Output :

2. Write a program to accept username and password form end user and verify username and password.

Xml Code:

```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"
    tools:context=".MainActivity">
    <ImageView
        android:layout_width="283dp"
        android:layout_height="196dp"
        android:src="@drawable/img1"
        android:layout_marginLeft="60dp"
        android:layout_marginTop="20dp"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="105dp"
        android:layout_marginTop="30dp"
        android:text="LOG IN"
        android:textColor="#1660E6"
        android:textSize="70dp"
        android:textStyle="italic" />
    <EditText
        android:id="@+id/user_name"
        android:background="@drawable/textbox_bg"
        android:layout_width="match_parent"
        android:layout_height="60dp"
        android:layout_marginLeft="20dp"
        android:layout_marginRight="20dp"
        android:layout_marginTop="40dp"
        android:textSize="25dp"
        android:hint="Enter your Username"
        android:textStyle="italic"
        android:paddingLeft="20dp" />
    <EditText
        android:id="@+id/pass_word"
        android:background="@drawable/textbox_bg"
        android:layout_width="match_parent"
        android:layout_height="60dp"
        android:layout_marginLeft="20dp"
        android:layout_marginRight="20dp"
        android:layout_marginTop="20dp"
        android:textSize="25dp"
        android:inputType="textPassword"
        android:hint="Enter your Password"
        android:textStyle="italic"
        android:paddingLeft="20dp" />
    <Button
        android:id="@+id/btn1"
        android:background="@drawable/button_bg"
        android:layout_width="180dp"
        android:layout_height="60dp"
        android:layout_marginTop="45dp"
        android:layout_marginLeft="115dp"
        android:text="Loginn"
        android:textSize="25dp" />
</LinearLayout>
```
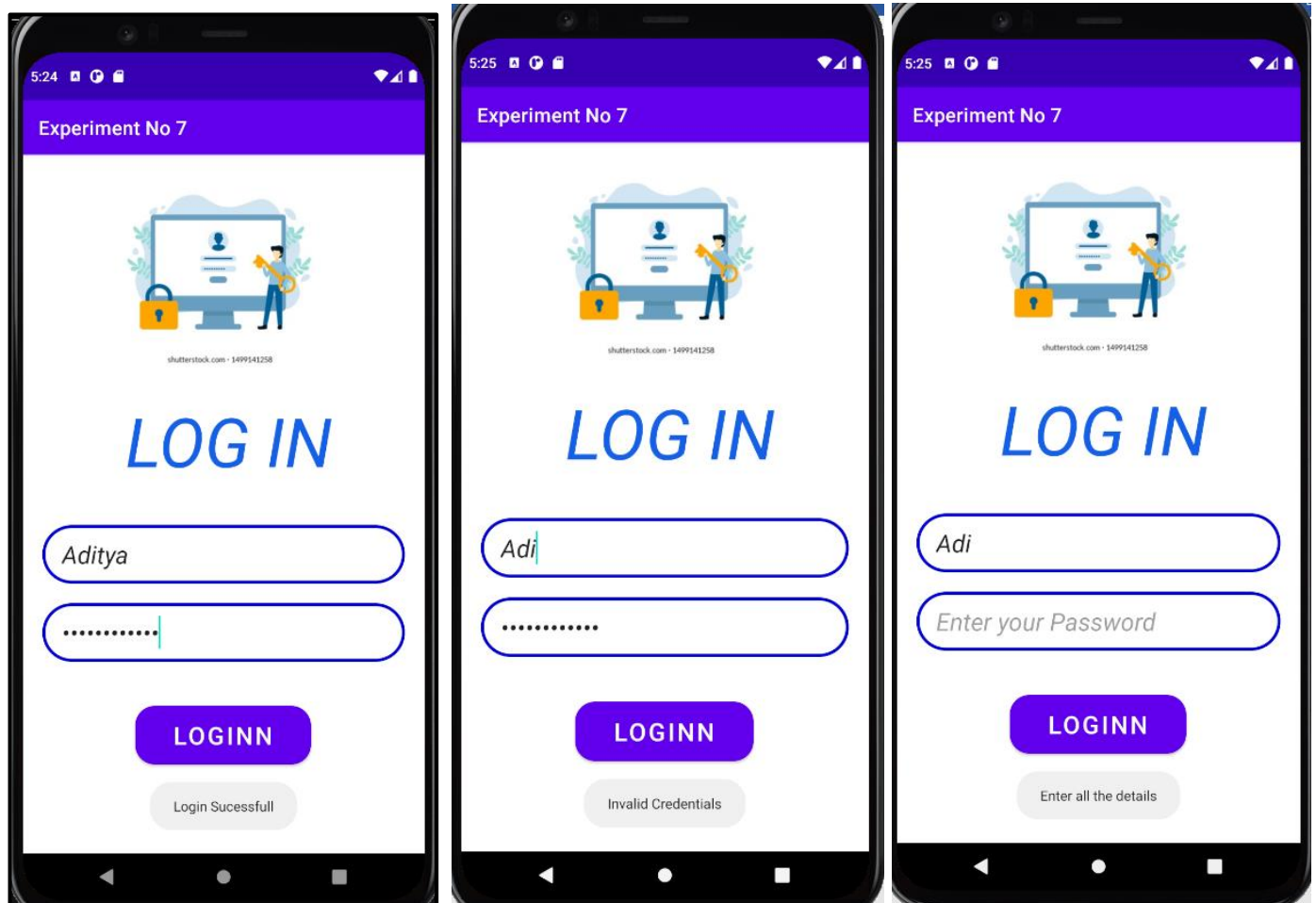
button_bg Code:

```xml
<?xml version="1.0" encoding="utf-8"?>
<shape xmlns:android="http://schemas.android.com/apk/res/android">
    <corners android:radius="20dp"/>
    <solid android:color="#1660E6"/>
</shape>
```

Textbox_bg Code:

```xml
<?xml version="1.0" encoding="utf-8"?>
<shape xmlns:android="http://schemas.android.com/apk/res/android">
    <corners android:radius="20dp"/>
    <solid android:color="#1660E6"/>
</shape>
```

Java Code:

```java
package com.example.exp7q1;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
public class MainActivity2 extends AppCompatActivity {
    EditText username,password;
    Button login;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        username = (EditText) findViewById(R.id.user_name);
        password = (EditText) findViewById(R.id.pass_word);
        login = (Button) findViewById(R.id.btn1);
        login.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                if(username.getText().toString().isEmpty() || password.getText().toString().isEmpty()){
                    Toast.makeText(getApplicationContext(), "Enter all the details", Toast.LENGTH_SHORT).show();
                }
                else if(username.getText().toString().equals("Aditya") &&  password.getText().toString().equals
("aditya@19406")){
                    Toast.makeText(getApplicationContext()  , "Login Sucessfull", Toast.LENGTH_SHORT).show();
                }
                else{
                    Toast.makeText(getApplicationContext(), "Invalid Credentials", Toast.LENGTH_SHORT).show();
                }
            }
        });
    }
}
```

Output :

3. Write a program to change the text of textview on button click.

Code:

```xml
<?xml version="1.0" encoding="utf-8"?>
<AbsoluteLayout 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=".MainActivity3">
    <TextView
        android:id="@+id/text"
        android:layout_width="match_parent"
        android:layout_height="100dp"
        android:text="Click The Button"
        android:textColor="@color/black"
        android:textSize="50dp"
        android:textStyle="bold|italic"
        android:layout_x="30dp"
        android:layout_y="50dp"
        />
    <Button
        android:id="@+id/btn"
        android:layout_width="250dp"
```

```
        android:layout_height="100dp"
        android:text="Click Me !!"
        android:textSize="30dp"
        android:backgroundTint="@color/black"
        android:layout_y="150dp"
        android:layout_x="80dp"
    />
</AbsoluteLayout>
```

Java Code:

```java
package com.example.exp7q1;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
public class MainActivity3 extends AppCompatActivity {
    TextView txt;
    Button click_btn;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main3);
        click_btn = (Button) findViewById(R.id.btn);
        txt = (TextView) findViewById(R.id.text);
        click_btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                txt.setText("Button Clicked !!");
            }
        });
    }
}
```

Output :