**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 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 :

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();

} }});}}

Graphical user interface, application

Description automatically generatedGraphical user interface, application

Description automatically generatedOutput :

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

Xml Code:

<?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 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 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:

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();

}

}

});

}

}

Graphical user interface, application

Description automatically generatedGraphical user interface, application

Description automatically generatedA screenshot of a computer

Description automatically generated with medium confidenceOutput :

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

Code:

<?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:

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 :

Graphical user interface, text, application

Description automatically generated Graphical user interface, text, application

Description automatically generated