VIT-AP UNIVERSITY, ANDHRA PRADESH

Lab Sheet I: Basic Views of Android Studio

Academic year: 2022-2023

Branch/ Class: B.Tech
Semester: Fall

Date: 21/09/22

Faculty Name: Mr. Kolluri Rajesh School: SCOPE

NAME: MAJJIGA JASWANTH REGNO:20BCD717I

Lab1:

1.Exploring all types of Texts supported in Android studio. Screen shot the keyboards that popsup. Observe the difference.

CODE:

Activity main.xml:

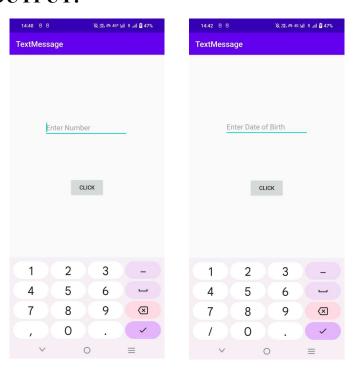
```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_maignTop="75dp"
    android:layout_maignTop="75dp"
    android:text="CLICK"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPassword" />

<EditText
    android:id="@+id/editTextTextPassword"
    android:layout_width="wrap_content"
    android:layout_marginTop="193dp"
    android:layout_marginTop="193dp"
    android:imputType="textPassword"
    android:inputType="textPassword"
    android:inputType="textPassword"
    android:inputType="textPassword"
    android:inputType="textPassword"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
<//android.support.constraint.ConstraintLayout>
```

MainActivty.java

OUTPUT:











Display a toast Message

Activity_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.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">

    <EditText
        android:id="0+id/editTextTextPersonName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="282dp"
        android:injuntType="textPersonName"
        android:injuntType="textPersonName"
        android:injuntType="textPersonName"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <Button
        android:layout_marginStart="55dp"
        android:layout_marginStart="55dp"
        android:layout_marginTop="56dp"
        android:text="CLICK"
        app:layout_constraintStart_toStartOf="0+id/editTextTextPersonName"
        app:layout_constraintStart_toStartOf="0+id/editTextTextPersonName"
        app:layout_constraintStart_toStartOf="0+id/editTextTextPersonName"
        app:layout_constraintStart_toStartOf="0+id/editTextTextPersonName"
        app:layout_constraintStart_toStartOf="0+id/editTextTextPersonName"
        app:layout_constraintStart_toStartOf="0+id/editTextTextPersonName"
        app:layout_constraint.ConstraintLayout>
```

MainActivty.java:

```
import android.support.v7.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 {
    EditText e;
    Button b;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        e = findViewById(R.id.editTextTextPersonName);
        b = findViewById(R.id.button);

    b.setOnClickListener(new View.OnClickListener() {
          @Override
          @Override
          protected (SavedInstanceState);
          setConClickListener(new View.OnClickListener()) {
          @Override
```

output:



Read a Name from EditText and display hello Name.

Code:

Activity_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.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">

    <EditText
        android:layout_width="wrap_content"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="282dp"
        android:ems="10"
        android:hint="Enter Name"
        android:inputType="textPersonName"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
```

MainActivty.java:

OUTPUT:



Read username and password and check for validity, and display login successful or failure.

CODE:

Activity main.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">
    <EditText
    android:id="@+id/e1"</pre>
```

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="103dp"
android:ems="10"
android:hint="Enter Username"
android:inputType="textPersonName"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

<EditText
android:id="@+id/e2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="55dp"
android:hint="Enter Password"
android:inputType="textPassword"
app:layout_constraintStart_toStartOf="@+id/e1" />

<Button
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_constraintTop_toBottomOf="@+id/e1" />

<Button
android:layout_width="wrap_content"
android:layout_marginTop="61dp"
android:layout_marginTop="61dp"
android:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintStart_toS
```

MainActivity.java

SUBMIT

Login Failed!!!

0

SUBMIT

Welcome Hemanth!!!

0

Read two numbers and write a program to add, subtract, multiply and divide.

Code: MainActivity.java:

```
protected void onCreate(Bundle savedInstanceState) {
       public void onClick(View view) {
           Toast.makeText(getApplicationContext(), "Addition of two
   b3.setOnClickListener(new View.OnClickListener() {
            double k = Double.parseDouble(e2.getText().toString());
```

```
double res = p*k;
    t1.setText(String.format("%.2f",res));
    Toast.makeText(getApplicationContext(), "Multiplication of
two numbers is " + res , Toast.LENGTH_SHORT).show();
    }
});
b4.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        double p = Double.parseDouble(e1.getText().toString());
        double k = Double.parseDouble(e2.getText().toString());
        double res = p/k;
        t1.setText(String.format("%.2f",res));
        Toast.makeText(getApplicationContext(), "Division of two
numbers is " + res , Toast.LENGTH_SHORT).show();
    }
});
}
```

Activity main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.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">

<EditText

android:id="@+id/editTextNumber"
android:layout_width="wrap_content"
android:layout_marginTop="126dp"
android:layout_marginTop="126dp"
android:layout_marginBottom="169dp"
android:hint="Enter the number"
android:inputType="number"
app:layout_constraintBottom_toTopOf="@+id/button4"
app:layout_constraintBnt_toEndOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_layout_width="wrap_content"
android:layout_width="wrap_content"
android:layout_marginBottom="124dp"
android:ems="10"
android:inputType="number"
android:inputType="number"
android:hint="Enter the number"
android:hint="Enter the numb
```

Output:

