Department of
Bachelor of Computer Applications

Android Operating System
Lab File – CA 06

Subject Code: 19BCA4C03L
Class: IInd Year IInd Semester

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Question 01 :

Program for Unit Conversion.

Code :

activity_main.xml

```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:id="@+id/activity_main"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="numberDecimal"
        android:hint="Enter the length in metres"
        android:ems="10"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="74dp"
        android:id="@+id/editText" />

    <Button
        android:text="Convert to centimetre"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:layout_centerHorizontal="true"
        android:layout_marginBottom="95dp"
        android:id="@+id/button" />

    <TextView
        android:text="Centimetre"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="24sp"
        android:layout_below="@+id/editText"
        android:gravity="center"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="72dp"
        android:id="@+id/textView" />

</RelativeLayout>
```

```java
package com.example.myapplication10;

import androidx.appcompat.app.AppCompatActivity;

import android.graphics.Color;
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 {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button mbutton;
        final EditText mET;
        final TextView mTV;

        mbutton= (Button) findViewById(R.id.button);
        mET=(EditText) findViewById(R.id.editText);
        mTV=(TextView) findViewById(R.id.textView);

        mbutton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Double convert=
Double.parseDouble(mET.getText().toString());
                mTV.setText(String.valueOf(convert*100));
                mTV.setTextColor(Color.RED);
            }
        });
    }
}
```

Output :