# MOBILE COMPUTING PROGRAMMING ASSIGNMENT

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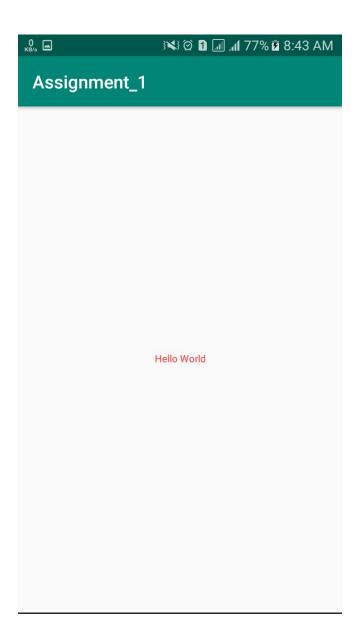
## **ASSIGNMENT 1**

**AIM:** Create "Hello World" application. That will display "Hello World" in the middle of the screen in the red color with white background

#### XML: (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">
  <TextView
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Hello World!"
    android:textColor="@android:color/holo red light"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintLeft toLeftOf="parent"
    app:layout constraintRight toRightOf="parent"
    app:layout constraintTop toTopOf="parent" />
</android.support.constraint.ConstraintLayout>
JAVA FILE:
package com.example.assignment 1;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
}
```

# Screenshot:



## **ASSIGNMENT 2**

AIM: To understand Activity, Intent

- a) Create sample application with login module.(Check username and password)
- b) On successful login, go to next screen. And on falling login, alert, user using Toast. Also pass username to next screen.

XML: (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">
  <RelativeLayout
    android:layout width="match parent"
    android:layout height="match parent">
    <TextView
       android:id="@+id/title"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:layout centerHorizontal="true"
       android:layout marginStart="15dp"
       android:layout marginTop="15dp"
       android:layout marginEnd="15dp"
       android:layout marginBottom="15dp"
       android:padding="5dp"
       android:text="Login App" />
    <LinearLayout
       android:layout width="match parent"
       android:layout height="match parent"
       android:layout marginTop="65dp"
       android:orientation="vertical">
       <LinearLayout
         android:layout width="match parent"
         android:layout height="wrap content"
         android:orientation="horizontal">
         <TextView
           android:id="@+id/textView3"
           android:layout width="wrap content"
```

```
android:layout height="wrap content"
    android:layout weight="0"
    android:text="Username" />
  <EditText
    android:id="@+id/username"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginStart="20dp"
    android:layout weight="0"
    android:ems="10"
    android:inputType="textPersonName"
    android:padding="10dp"
    android:text=""/>
</LinearLayout>
<LinearLayout
  android:layout width="match parent"
  android:layout height="wrap content"
  android:orientation="horizontal">
  <TextView
    android:id="@+id/textView5"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout weight="0"
    android:text="Password" />
  <EditText
    android:id="@+id/password"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:layout marginStart="20dp"
    android:layout weight="0"
    android:ems="10"
    android:inputType="textPassword" />
</LinearLayout>
<LinearLayout
  android:layout width="match parent"
  android:layout height="wrap content"
  android:layout margin="70dp"
  android:orientation="horizontal"
  android:padding="25dp">
  <Button
    android:id="@+id/button"
    android:layout_width="0dp"
    android:layout height="wrap content"
    android:layout weight="1"
    android:text="Login" />
</LinearLayout>
```

```
</LinearLayout>
  </RelativeLayout>
</android.support.constraint.ConstraintLayout>
XML: (activity_main2.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=".Main2Activity">
  <TextView
    android:id="@+id/display"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout margin="50dp"
    android:layout marginStart="176dp"
    android:layout marginTop="168dp"
    android:layout marginEnd="8dp"
    android:layout marginBottom="8dp"
    android:padding="50dp"
    android:text=" "
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.0"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.408"/>
</android.support.constraint.ConstraintLayout>
JAVA CODE: (MainActivity.java)
package com.example.login;
import android.content.Intent;
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 password;
  EditText username:
```

```
Button button:
  String str, str2;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    password = (EditText)findViewById(R.id.password);
    username = (EditText)findViewById(R.id.username);
    button = (Button)findViewById(R.id.button);
    button.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         str = username.getText().toString();
         str2 = password.getText().toString();
         if(str.equals("admin") && str2.equals("admin")) {
           Intent i = new Intent(MainActivity.this, Main2Activity.class);
           i.putExtra("username", str);
           startActivity(i);
         } else {
           Toast.makeText(getApplicationContext(), "Invalid credinals! Try again.",
Toast.LENGTH LONG).show();
    });
JAVA CODE: (Main2Activity.java)
package com.example.login;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;
public class Main2Activity extends AppCompatActivity {
  TextView textView;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main2);
    textView = (TextView)findViewById(R.id.display);
    textView.setText("User: "+getIntent().getExtras().getString("username"));
}
```

# Screenshot:

