

MOBILE COMPUTING PROGRAMMING ASSIGNMENT

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ROLL NO: 51

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)

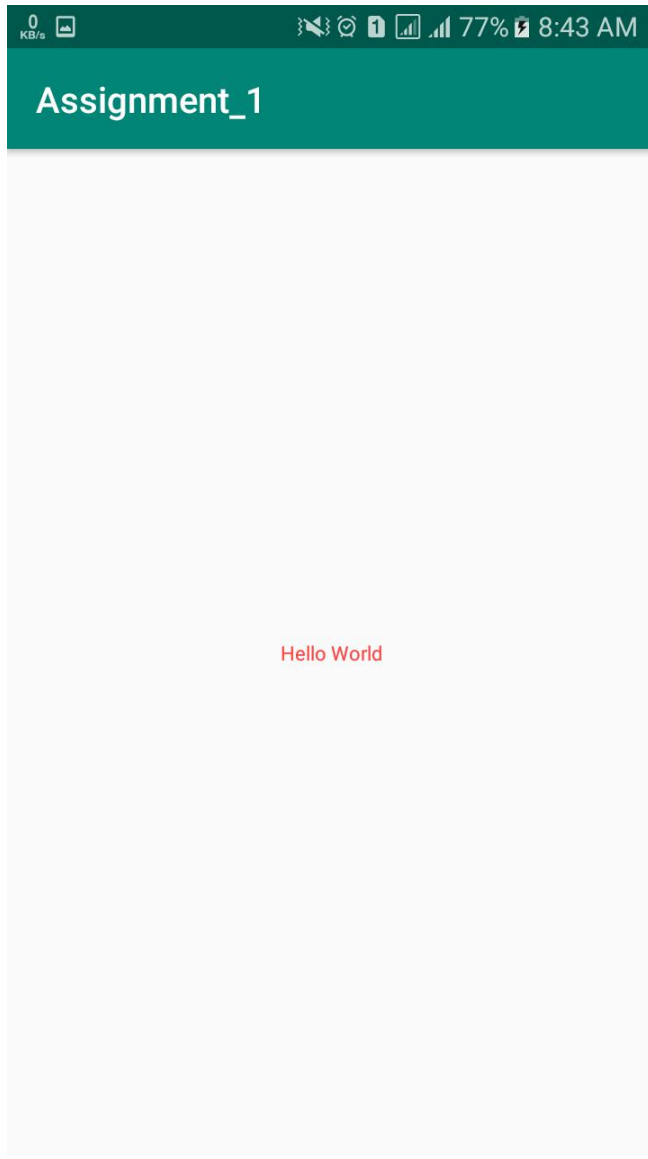
```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"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

0 KB/s 75% 8:32 AM

Login

Login App

Username

Password

LOGIN

0 KB/s 75% 8:32 AM

Login

User : admin

0 KB/s 76% 8:33 AM

Login

Login App

Username

Password

LOGIN

Invalid credinals ! Try again.