MOBILE COMPUTING

PROGRAMMING ASSIGNMENT

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Date 10. 04. 2019 VYSHAK PUTHUSSERI

**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

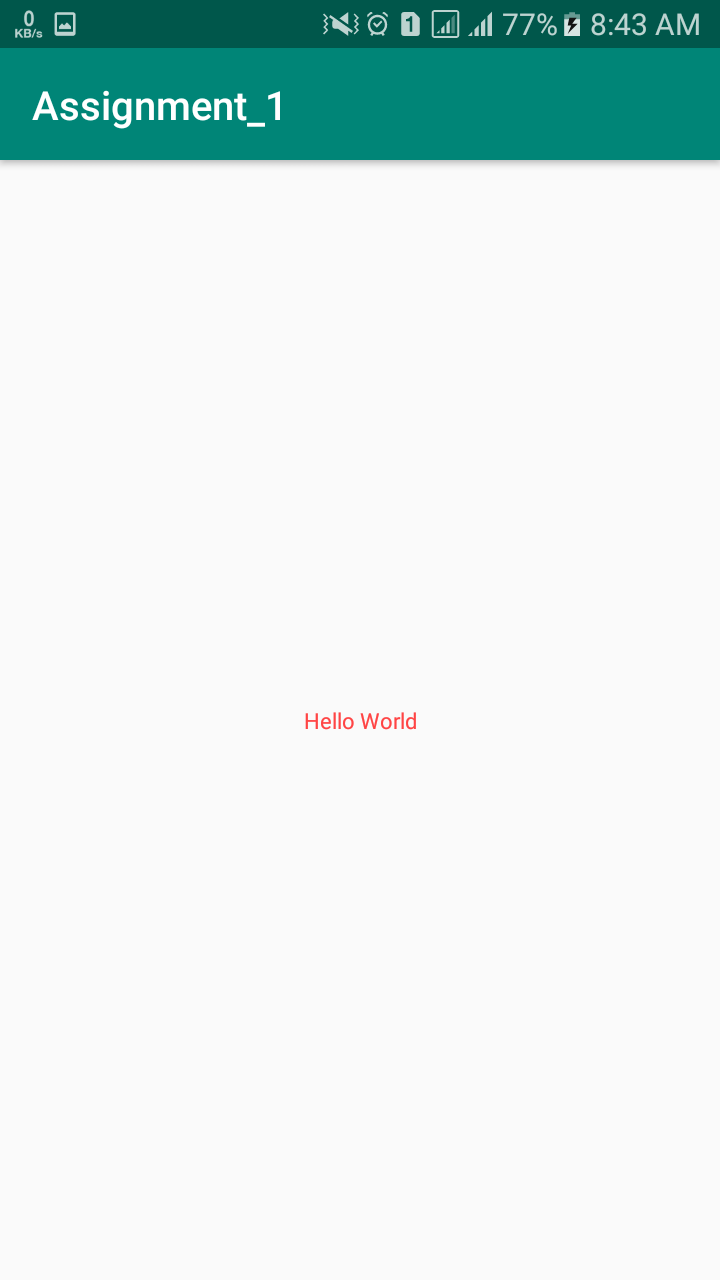
XML: (activity\_main.xml)

*<?*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 :



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**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 :

