Practical 1

```
activity_main.xml:
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity"
  android:background="@color/colorPrimary">
  <TextView
    android:id="@+id/tb"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout centerInParent="true"
    android:text="Hello World!"
    android:textColor="@android:color/holo_red_dark"
    android:textSize="50sp"
    android:textStyle="bold"/>
</RelativeLayout>
MainActivity.java:
package com.example.mcwc_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);
  }
}
```



Practical 2

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
  android:orientation="vertical"
  xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout height="match parent"
  tools:context=".MainActivity">
  <TextView
    android:id="@+id/tb1"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text="Hello World!"
    android:textSize="40sp"
    android:layout_gravity="center"
    android:layout_marginTop="50dp"/>
  <TextView
    android:id="@+id/tb2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Namaskar!!"
    android:textSize="40sp"
    android:layout gravity="center"
    android:layout_marginTop="50dp"/>
  <TextView
    android:id="@+id/tb3"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:textSize="40sp"
    android:layout_gravity="center"
    android:layout marginTop="50dp" />
</LinearLayout>
MainActivity.java:
package com.example.mcwc_2;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
```

MCWC(2170710)

import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

 TextView a;
 TextView b;
 TextView c;

@Override
 protected void onCreate(Bundle savedInstanceState) {
 super.onCreate(savedInstanceState);
 setContentView(R.layout.activity_main);

 a = findViewById(R.id.tb1);
 b = findViewById(R.id.tb2);
 c = findViewById(R.id.tb3);
 String p = (String)a.getText() + (String)b.getText();

MCWC_2

c.setText(p);

}

Hello World!

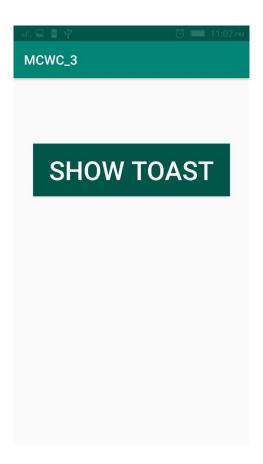
Enrol. No: 160420116064

Namaskar!!

Hello World! Namaskar!!

Practical 3

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity">
  <Button
    android:layout width="300dp"
    android:layout_height="80dp"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="100dp"
    android:background="@color/colorPrimaryDark"
    android:text="Show Toast"
    android:textColor="@android:color/background_light"
    android:textSize="40sp"
    android:onClick="Show"/>
</RelativeLayout>
MainActivity.java:
package com.example.mcwc_3;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
  }
  public void Show (View v) {
    Toast.makeText(getApplicationContext(), "This is the Toast!", Toast.LENGTH_LONG).show();
  }
}
```





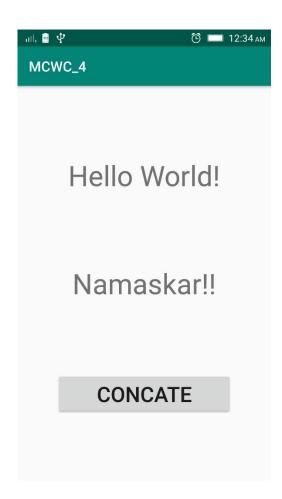
Practical 4

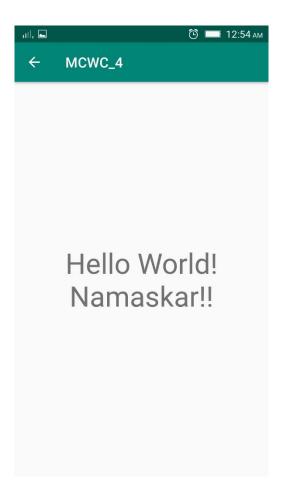
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
  android:orientation="vertical"
  xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout height="match parent"
  tools:context=".MainActivity">
  <TextView
    android:id="@+id/tb1"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text="Hello World!"
    android:textSize="40sp"
    android:layout_gravity="center"
    android:layout_marginTop="100dp"/>
  <TextView
    android:id="@+id/tb2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Namaskar!!"
    android:textSize="40sp"
    android:layout gravity="center"
    android:layout_marginTop="100dp"/>
  <Button
    android:layout_width="250dp"
    android:layout_height="60dp"
    android:text="Concate"
    android:textSize="30sp"
    android:layout_gravity="center"
    android:layout marginTop="100dp"
    android:onClick="next"/>
</LinearLayout>
MainActivity.java:
package com.example.mcwc_4;
import android.content.Intent;
```

```
MCWC(2170710)
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
  String p;
  String q;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    p = ((TextView) findViewById(R.id.tb1)).getText().toString();
    q = ((TextView) findViewById(R.id.tb2)).getText().toString();
  }
  public void next(View v) {
    Intent i = new Intent(this, SubActivity.class);
    i.putExtra("p1", p);
    i.putExtra("p2", q);
    startActivity(i);
  }
}
Activity_sub.xml:
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".SubActivity">
  <TextView
    android:id="@+id/tb3"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:layout_centerInParent="true"
    android:gravity="center"
    android:textSize="40sp"/>
</RelativeLayout>
SubActivity.java:
package com.example.mcwc_4;
```

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```
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;
public class SubActivity extends AppCompatActivity {
  TextView c;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_sub);
    Intent i = getIntent();
    c = findViewById(R.id.tb3);
    String p = i.getStringExtra("p1") + i.getStringExtra("p2");
    c.setText(p);
  }
}
```





Practical 5

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:gravity="center horizontal"
  android:orientation="vertical"
  tools:context=".MainActivity">
  <ScrollView
    android:id="@+id/login_form"
    android:layout width="match parent"
    android:layout_height="match_parent">
    <LinearLayout
      android:layout_width="match_parent"
      android:layout_height="wrap_content"
      android:orientation="vertical">
      <AutoCompleteTextView
        android:id="@+id/uname"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout marginLeft="40dp"
        android:layout_marginTop="80dp"
        android:layout_marginRight="40dp"
        android:hint="Username"
        android:inputType="text"
        android:maxLines="1"
        android:padding="16dp"
        android:singleLine="true"
        android:textColor="@color/purple"
        android:textSize="24sp"/>
      <EditText
        android:id="@+id/pwd"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout marginLeft="40dp"
        android:layout_marginTop="20dp"
        android:layout marginRight="40dp"
        android:hint="Password"
```

```
android:inputType="textPassword"
        android:maxLines="1"
        android:padding="16dp"
        android:singleLine="true"
        android:textColor="@color/purple"
        android:textSize="24sp"/>
      <Button
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="80dp"
        android:layout marginTop="50dp"
        android:layout_marginRight="80dp"
        android:background="@color/colorPrimaryDark"
        android:padding="16dp"
        android:text="Log In"
        android:textColor="@android:color/background_light"
        android:textSize="24sp"
        android:textStyle="bold"
        android:onClick="check"/>
    </LinearLayout>
  </ScrollView>
  </LinearLayout>
MainActivity.java:
package com.example.mcwc_5;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
  public void check (View v) {
    String user = ((TextView)findViewById(R.id.uname)).getText().toString();
```

```
String pass = ((TextView)findViewById(R.id.pwd)).getText().toString();
    if (!user.equals("prachik")) {
      Toast.makeText(getApplicationContext(), "Incorrect Username!!",
Toast.LENGTH_LONG).show();
    else if (!pass.equals("logmein")) {
      Toast.makeText(getApplicationContext(), "Incorrect Password!!",
Toast.LENGTH_LONG).show();
    }
    else {
      Intent i = new Intent(this, Home.class);
      i.putExtra("un", user);
      startActivity(i);
    }
  }
Activity_sub.xml:
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".Home">
  <TextView
    android:id="@+id/tv"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerInParent="true"
    android:gravity="center"
    android:textSize="40sp"
    android:textStyle="bold"/>
</RelativeLayout>
SubActivity.java:
package com.example.mcwc_5;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;
public class Home extends AppCompatActivity {
```

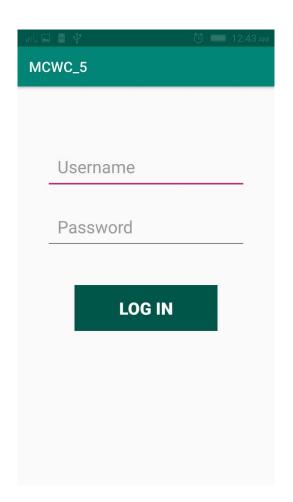
Enrol. No: 160420116064

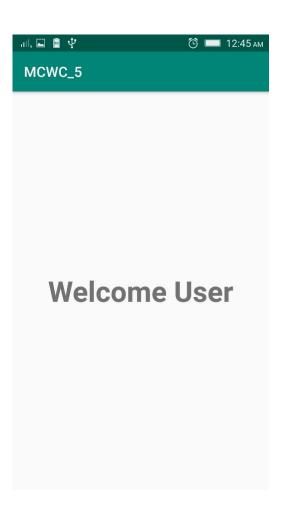
MCWC(2170710)

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_home);

    Intent i = getIntent();

    String p = "Welocme " + i.getStringExtra("un");
    ((TextView) findViewById(R.id.tv)).setText( p );
    }
}
```





Practical 6

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:gravity="center horizontal"
  android:orientation="vertical"
  tools:context=".MainActivity">
  <ScrollView
    android:id="@+id/login_form"
    android:layout width="match parent"
    android:layout_height="match_parent">
    <LinearLayout
      android:layout_width="match_parent"
      android:layout_height="wrap_content"
      android:orientation="vertical">
      <AutoCompleteTextView
        android:id="@+id/uname"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout marginLeft="40dp"
        android:layout_marginTop="80dp"
        android:layout_marginRight="40dp"
        android:hint="Username"
        android:inputType="text"
        android:maxLines="1"
        android:padding="16dp"
        android:singleLine="true"
        android:textColor="@android:color/holo_blue_light"
        android:textSize="24sp" />
      <EditText
        android:id="@+id/pwd"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout marginLeft="40dp"
        android:layout_marginTop="20dp"
        android:layout marginRight="40dp"
        android:hint="Password"
```

```
android:inputType="textPassword"
        android:maxLines="1"
        android:padding="16dp"
        android:singleLine="true"
        android:textColor="@android:color/holo blue light"
        android:textSize="24sp"/>
      <Button
        android:id="@+id/btn"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout marginLeft="80dp"
        android:layout_marginTop="50dp"
        android:layout_marginRight="80dp"
        android:background="@color/colorPrimaryDark"
        android:padding="16dp"
        android:text="Log In"
        android:enabled="false"
        android:textColor="@android:color/background_light"
        android:textSize="24sp"
        android:textStyle="bold"
        android:onClick="Check" />
    </LinearLayout>
  </ScrollView>
</LinearLayout>
MainActivity.java:
package com.example.mcwc_6;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.text.Editable;
import android.text.TextWatcher;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
  TextView uname;
  EditText pwd;
  Button btn;
  String u;
  String p;
```

```
@Override
protected void onCreate(Bundle savedInstanceState) {
  super.onCreate(savedInstanceState);
  setContentView(R.layout.activity_main);
  uname = findViewById(R.id.uname);
  pwd = findViewById(R.id.pwd);
  btn = findViewById(R.id.btn);
  uname.addTextChangedListener( PTextWatcher );
  pwd.addTextChangedListener( PTextWatcher );
}
private TextWatcher PTextWatcher = new TextWatcher() {
  @Override
  public void beforeTextChanged(CharSequence s, int start, int count, int after) {
  }
  @Override
  public void onTextChanged(CharSequence s, int start, int before, int count) {
    u = uname.getText().toString().trim();
    p = pwd.getText().toString().trim();
    boolean en = false;
    if( !u.isEmpty() && !p.isEmpty() ) {
      if (u.equals("prachik") && p.equals("prachi") ){
        en = true;
      }
    btn.setEnabled(en);
  }
  @Override
  public void afterTextChanged(Editable s) {
  }
};
public void Check(View v) {
  Intent i = new Intent (this, Home.class);
  i.putExtra("un", u);
  startActivity(i);
}
```

}

Activity_sub.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".Home">
  <TextView
    android:id="@+id/tv"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerInParent="true"
    android:gravity="center"
    android:textSize="40sp"
    android:textStyle="bold"/>
</RelativeLayout>
SubActivity.java:
package com.example.mcwc_6;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;
public class Home extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_home);
    Intent i = getIntent();
  // String p = "Welocme " + i.getStringExtra("un");
    String p = "Welcome User";
    ((TextView) findViewById(R.id.tv)).setText(p);
  }
}
```

