**Android Programming**

**SLOT :- L29+L30**

**Faculty:- Prof. Dr. P.Srinivasan**

**Document Submitted by:- Karthik Sekaran (12MSE0094)**

**Lab Cyclesheet Programs:-**

**Program-1:**

**Activity.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="com.example.karthiksekaran.helloworld.MainActivity"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Welcome To Android Programming!"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
</**android.support.constraint.ConstraintLayout**>

**MainActivity.java**

**package** com.example.karthiksekaran.helloworld;  
  
**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***);  
 }  
}

**Program – 2:-**

**Activity.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="com.example.karthiksekaran.helloworld.MainActivity"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Hello World!"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 android:textAlignment="center"  
 android:textSize="30dp"  
 android:textColor="#FF0000"  
 android:background="#FFFF00"** />  
  
</**android.support.constraint.ConstraintLayout**>

**MainActivity.java**

**package** com.example.karthiksekaran.helloworld;  
  
**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***);  
 }  
}

**Program – 3:**

**Activity.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="com.example.karthiksekaran.activity\_life\_cycle.MainActivity"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Hello World!"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
</**android.support.constraint.ConstraintLayout**>

**MainActivity.java**

**package** com.example.karthiksekaran.activity\_life\_cycle;  
  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 Toast.*makeText*(getApplicationContext(),**"OnCreate"**,Toast.***LENGTH\_SHORT***).show();  
 }  
  
 @Override  
 **protected void** onDestroy() {  
 **super**.onDestroy();  
 Toast.*makeText*(getApplicationContext(),**"OnDestroy"**,Toast.***LENGTH\_SHORT***).show();  
 }  
  
 @Override  
 **protected void** onStart() {  
 **super**.onStart();  
 Toast.*makeText*(getApplicationContext(),**"OnStart"**,Toast.***LENGTH\_SHORT***).show();  
 }  
  
 @Override  
 **protected void** onStop() {  
  
 **super**.onStop();  
 Toast.*makeText*(getApplicationContext(),**"OnStop"**,Toast.***LENGTH\_SHORT***).show();  
 }  
  
 @Override  
 **protected void** onResume() {  
 **super**.onResume();  
 Toast.*makeText*(getApplicationContext(),**"OnResume"**,Toast.***LENGTH\_SHORT***).show();  
 }  
  
 @Override  
 **protected void** onPause() {  
 **super**.onPause();  
 Toast.*makeText*(getApplicationContext(),**"OnPause"**,Toast.***LENGTH\_SHORT***).show();  
 }  
  
 @Override  
 **protected void** onRestart() {  
 **super**.onRestart();  
 }  
}

**Program – 4:-**

**Activity.xml:-**

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="#000000"  
 tools:context="com.example.karthiksekaran.helloworld.MainActivity"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Hello World!"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 android:textAlignment="center"  
 android:textSize="30dp"  
 android:textColor="#FFFFFF"  
 android:id="@+id/textView"** />  
  
 <**TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentLeft="true"  
 android:layout\_alignParentStart="true"  
 android:layout\_below="@+id/textView"  
 android:layout\_marginLeft="18dp"  
 android:layout\_marginStart="18dp"  
 android:layout\_marginTop="35dp"  
 android:text="What's your name"  
 android:textColor="#FFFFFF"** />  
  
 <**EditText  
 android:id="@+id/editText"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignLeft="@+id/textView2"  
 android:layout\_alignStart="@+id/textView2"  
 android:layout\_below="@+id/textView2"  
 android:layout\_marginTop="40dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:textColor="#FFFFFF"** />  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginStart="40dp"  
 android:text="Button"  
 android:textColor="#FFFFFF"  
 android:layout\_alignTop="@+id/editText"  
 android:layout\_toRightOf="@+id/editText"  
 android:layout\_toEndOf="@+id/editText"** />  
  
 <**TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignLeft="@+id/editText"  
 android:layout\_alignStart="@+id/editText"  
 android:layout\_below="@+id/button"  
 android:layout\_marginTop="35dp"  
 android:textColor="#FFFFFF"  
 android:text="TextView"** />  
  
</**RelativeLayout**>

**MainActivity.xml:-**

**package** com.example.karthiksekaran.helloworld;  
  
**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.TextView;  
  
**public class** MainActivity **extends** AppCompatActivity **implements** View.OnClickListener {  
EditText **text**;  
 Button **click**;  
 TextView **t**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **text** = (EditText)findViewById(R.id.***editText***);  
 **t** = (TextView)findViewById(R.id.***textView3***);  
 **click** = (Button)findViewById(R.id.***button***);  
 **click**.setOnClickListener(**this**);  
 }  
  
 @Override  
 **public void** onClick(View v) {  
 String name = **text**.getText().toString();  
 **t**.setText(**"Hello,"**+name);  
 }  
}

**Program – 5:**

**Activity.xml:-**

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.example.karthiksekaran.celsius.MainActivity"**>  
  
 <**EditText  
 android:id="@+id/editText"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentRight="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_marginRight="72dp"  
 android:layout\_marginEnd="72dp"** />  
  
 <**RadioButton  
 android:id="@+id/radioButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignLeft="@+id/editText"  
 android:layout\_alignStart="@+id/editText"  
 android:layout\_below="@+id/editText"  
 android:layout\_marginTop="38dp"  
 android:text="Celsius"** />  
  
 <**RadioButton  
 android:id="@+id/radioButton2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="29dp"  
 android:text="Farenheit"  
 android:layout\_below="@+id/radioButton"  
 android:layout\_alignLeft="@+id/radioButton"  
 android:layout\_alignStart="@+id/radioButton"** />  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:layout\_centerVertical="true"  
 android:text="Button"** />  
  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/button"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="55dp"  
 android:text="TextView"** />  
</**RelativeLayout**>

**MainActivity.java**

**package** com.example.karthiksekaran.celsius;  
  
**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.RadioButton;  
**import** android.widget.TextView;  
  
**import** org.w3c.dom.Text;  
  
**public class** MainActivity **extends** AppCompatActivity **implements** View.OnClickListener {  
EditText **text**;  
 TextView **tx**;  
 Button **click**;  
 RadioButton **cel**,**far**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **text** = (EditText)findViewById(R.id.***editText***);  
 **click** = (Button)findViewById(R.id.***button***);  
 **tx** = (TextView)findViewById(R.id.***textView***);  
 **cel** = (RadioButton)findViewById(R.id.***radioButton***);  
 **far** = (RadioButton)findViewById(R.id.***radioButton2***);  
 **click**.setOnClickListener(**this**);  
 }  
  
 @Override  
 **public void** onClick(View v) {  
 Double value = (Double.*parseDouble*(**text**.getText().toString()));  
 **if**(**cel**.isChecked())  
 {  
 Double cel = value\*0.18+32;  
 String res = cel.toString();  
 **tx**.setText(**"Celsius:"**+res);  
  
  
 }  
 **if**(**far**.isChecked())  
 {  
 Double far = value/0.18-32;  
 String res = far.toString();  
 **tx**.setText(**"Farenheit:"**+res);  
 }  
 }  
}

**Program : - 6**

**Activity.xml:-**

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.example.karthiksekaran.calculator.MainActivity"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="41dp"  
 android:text="Simple Calculator"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 android:id="@+id/textView"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"** />  
  
 <**EditText  
 android:id="@+id/editText"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/textView"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="39dp"  
 android:ems="10"  
 android:inputType="textPersonName"** />  
  
 <**EditText  
 android:id="@+id/editText2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignLeft="@+id/editText"  
 android:layout\_alignStart="@+id/editText"  
 android:layout\_below="@+id/editText"  
 android:layout\_marginTop="37dp"  
 android:ems="10"  
 android:inputType="textPersonName"** />  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignLeft="@+id/editText2"  
 android:layout\_alignStart="@+id/editText2"  
 android:layout\_below="@+id/editText2"  
 android:layout\_marginTop="41dp"  
 android:text="Add"** />  
  
 <**Button  
 android:id="@+id/button2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignEnd="@+id/editText2"  
 android:layout\_alignRight="@+id/editText2"  
 android:layout\_alignTop="@+id/button"  
 android:text="Sub"** />  
  
 <**Button  
 android:id="@+id/button3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignLeft="@+id/button"  
 android:layout\_alignStart="@+id/button"  
 android:layout\_below="@+id/button"  
 android:layout\_marginTop="33dp"  
 android:text="Mul"** />  
  
 <**Button  
 android:id="@+id/button4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignLeft="@+id/button2"  
 android:layout\_alignStart="@+id/button2"  
 android:layout\_alignTop="@+id/button3"  
 android:text="Div"** />  
  
 <**TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignLeft="@+id/button3"  
 android:layout\_alignStart="@+id/button3"  
 android:layout\_below="@+id/button3"  
 android:layout\_marginTop="48dp"  
 android:text="Result:"** />  
  
 <**TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignTop="@+id/textView2"  
 android:layout\_toEndOf="@+id/button3"  
 android:layout\_toRightOf="@+id/button3"** />  
  
</**RelativeLayout**>

**MainActivity.xml:-**

**package** com.example.karthiksekaran.calculator;  
  
**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.TextView;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity **implements** View.OnClickListener {  
  
 EditText **val1**,**val2**;  
 TextView **res**;  
 Button **add**,**sub**,**mul**,**div**;  
 Double **ad**;  
 Double **con1**,**con2**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **add**=(Button)findViewById(R.id.***button***);  
 sub=(Button)findViewById(R.id.button2);  
 mul=(Button)findViewById(R.id.button3);  
 div=(Button)findViewById(R.id.button4);  
 add.setOnClickListener(**this**);  
 sub.setOnClickListener(**this**);  
 mul.setOnClickListener(**this**);  
 div.setOnClickListener(**this**);  
 }  
  
 @Override  
 **public void** onClick(View v) {  
 val1 = (EditText)findViewById(R.id.editText);  
 val2 = (EditText)findViewById(R.id.editText2);  
 res = (TextView)findViewById(R.id.textView3);  
 con1 = Double.parseDouble(val1.getText().toString());  
 con2 = Double.parseDouble(val2.getText().toString());  
 **if**(v.getId()== R.id.button)  
 {  
 ad = con1+con2;  
 res.setText(ad.toString());  
 }  
 **if**(v.getId()== R.id.button2)  
 {  
 ad = con1-con2;  
 res.setText(ad.toString());  
 }  
 **if**(v.getId()== R.id.button3)  
 {  
 ad = con1\*con2;  
 res.setText(ad.toString());  
 }  
 **if**(v.getId()== R.id.button4)  
 {  
 ad = con1/con2;  
 res.setText(ad.toString());  
 }  
 Toast.makeText(getApplicationContext(),**"Result:"**+ad.toString(),Toast.LENGTH\_LONG).show();  
 }  
 }

**Program :- 7**

**Activity.xml**

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.example.karthiksekaran.program\_7.MainActivity"**>  
  
 <**EditText  
 android:id="@+id/editText"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="Your Full Name"** />  
  
 <**Spinner  
 android:id="@+id/spinner"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentLeft="true"  
 android:layout\_alignParentStart="true"  
 android:layout\_below="@+id/editText"** />  
  
 <**EditText  
 android:id="@+id/editText2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignEnd="@+id/editText"  
 android:layout\_alignRight="@+id/editText"  
 android:layout\_below="@+id/spinner"  
 android:layout\_marginEnd="24dp"  
 android:layout\_marginRight="24dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="Username"** />  
  
 <**EditText  
 android:id="@+id/editText3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignLeft="@+id/editText2"  
 android:layout\_alignStart="@+id/editText2"  
 android:layout\_below="@+id/editText2"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="Password"** />  
  
 <**EditText  
 android:id="@+id/editText4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/editText3"  
 android:layout\_marginTop="17dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="+91"** />  
  
 <**EditText  
 android:id="@+id/editText5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentRight="true"  
 android:layout\_alignTop="@+id/editText4"  
 android:layout\_marginEnd="20dp"  
 android:layout\_marginRight="20dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="Mobile Nuber"** />  
  
 <**EditText  
 android:id="@+id/editText6"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_above="@+id/checkBox"  
 android:layout\_alignLeft="@+id/editText"  
 android:layout\_alignStart="@+id/editText"  
 android:layout\_marginBottom="16dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="Email Address"** />  
  
 <**CheckBox  
 android:id="@+id/checkBox"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="17dp"  
 android:layout\_marginLeft="12dp"  
 android:layout\_marginStart="12dp"  
 android:text="I accept terms and conditions"  
 android:layout\_above="@+id/button"  
 android:layout\_alignLeft="@+id/editText"  
 android:layout\_alignStart="@+id/editText"** />  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignLeft="@+id/editText5"  
 android:layout\_alignParentBottom="true"  
 android:layout\_alignStart="@+id/editText5"  
 android:layout\_marginBottom="26dp"  
 android:text="register"** />  
  
</**RelativeLayout**>

**MainActivity.java**

**package** com.example.karthiksekaran.program\_7;  
  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.support.v7.widget.PopupMenu;  
**import** android.view.View;  
**import** android.widget.AdapterView;  
**import** android.widget.ArrayAdapter;  
**import** android.widget.Button;  
**import** android.widget.CheckBox;  
**import** android.widget.EditText;  
**import** android.widget.Spinner;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity **implements** View.OnClickListener, AdapterView.OnItemSelectedListener {  
EditText **a**,**b**,**c**,**d**,**e**,**f**;  
 CheckBox **c1**;  
 Button **b1**;  
 Spinner **s**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **a** = (EditText)findViewById(R.id.***editText***);  
 **b** = (EditText)findViewById(R.id.***editText2***);  
 **c** = (EditText)findViewById(R.id.***editText3***);  
 **d** = (EditText)findViewById(R.id.***editText4***);  
 **e** = (EditText)findViewById(R.id.***editText5***);  
 **f** = (EditText)findViewById(R.id.***editText6***);  
 **s** = (Spinner)findViewById(R.id.***spinner***);  
 **b1** = (Button)findViewById(R.id.***button***);  
 **c1** = (CheckBox)findViewById(R.id.***checkBox***);  
 **b1**.setOnClickListener(**this**);  
 }  
  
 @Override  
 **public void** onClick(View v) {  
 String[] spin = {**"Female"**, **"Male"**};  
 ArrayAdapter arrayAdapter = **new** ArrayAdapter(**this**, R.layout.***support\_simple\_spinner\_dropdown\_item***,spin);  
 **s**.setAdapter(arrayAdapter);  
 arrayAdapter.setDropDownViewResource(R.layout.***support\_simple\_spinner\_dropdown\_item***);  
 **s**.setOnItemSelectedListener(**this**);  
 String aa,bb,cc,dd,ee,ff;  
 aa = **a**.getText().toString();  
 bb = **b**.getText().toString();  
 cc = **c**.getText().toString();  
 ee = **e**.getText().toString();  
 ff = **f**.getText().toString();  
 **if**(**c1**.isChecked())  
 {  
 Toast.*makeText*(getApplicationContext(),**"Name:"**+aa+**"Username:"**+bb+**"Password:"**+cc+**"Mobile\_No:"**+ee+**"Email:"**+ff+**"Terms and Conditions Agreed"**,Toast.***LENGTH\_SHORT***).show();  
 }  
 }  
  
 @Override  
 **public void** onItemSelected(AdapterView<?> parent, View view, **int** position, **long** id) {  
  
 String name = parent.getItemAtPosition(position).toString();  
 Toast.*makeText*(getApplicationContext(),**"Gender:"**+name,Toast.***LENGTH\_SHORT***).show();  
 }  
  
 @Override  
 **public void** onNothingSelected(AdapterView<?> parent) {  
  
 }  
}

**Program : - 11**

**Activity.xml:-**

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.example.karthiksekaran.date\_picker.MainActivity"**>  
  
 <**DatePicker  
 android:id="@+id/datePicker"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="wrap\_content"** />  
  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignEnd="@+id/datePicker"  
 android:layout\_alignParentBottom="true"  
 android:layout\_alignRight="@+id/datePicker"  
 android:layout\_marginBottom="27dp"  
 android:layout\_marginEnd="25dp"  
 android:layout\_marginRight="25dp"  
 android:text="TextView"** />  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentLeft="true"  
 android:layout\_alignParentStart="true"  
 android:layout\_below="@+id/datePicker"  
 android:layout\_marginLeft="70dp"  
 android:layout\_marginStart="70dp"  
 android:layout\_marginTop="12dp"  
 android:text="Button"** />  
</**RelativeLayout**>

**MainActivity.java**

**package** com.example.karthiksekaran.date\_picker;  
  
**import** android.icu.util.Calendar;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.DatePicker;  
**import** android.widget.TextView;  
  
**import** java.util.Date;  
  
**public class** MainActivity **extends** AppCompatActivity **implements** View.OnClickListener {  
DatePicker **datePicker**;  
TextView **textView**;  
 Button **click**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **datePicker** = (DatePicker)findViewById(R.id.***datePicker***);  
 **textView** = (TextView)findViewById(R.id.***textView***);  
 **click** = (Button)findViewById(R.id.***button***);  
 **click**.setOnClickListener(**this**);  
 }  
  
 @Override  
 **public void** onClick(View v) {  
 **textView**.setText(getDetails());  
 }  
  
 **public** String getDetails()  
 {  
 StringBuilder builder = **new** StringBuilder();  
 builder.append(**datePicker**.getYear()+**"/"**);  
 builder.append(**datePicker**.getMonth()+1+**"/"**);  
 builder.append(**datePicker**.getDayOfMonth());  
 **return** builder.toString();  
 }  
}

**Program:- 12**

**Activity.xml**

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.example.karthiksekaran.time\_picker.MainActivity"**>  
  
 <**TimePicker  
 android:id="@+id/timePicker"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentLeft="true"  
 android:layout\_alignParentStart="true"** />  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/timePicker"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="45dp"  
 android:text="Button"** />  
</**RelativeLayout**>

**MainActivity.java**

**package** com.example.karthiksekaran.time\_picker;  
  
**import** android.os.Build;  
**import** android.support.annotation.RequiresApi;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.TimePicker;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity **implements** View.OnClickListener {  
TimePicker timePicker;  
 Button click;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
 timePicker = (TimePicker)findViewById(R.id.timePicker);  
 click = (Button)findViewById(R.id.button);  
 click.setOnClickListener(**this**);  
 }  
  
 @RequiresApi(api = Build.VERSION\_CODES.M)  
 @Override  
 **public void** onClick(View v) {  
 Toast.makeText(getApplicationContext(),**"Selected Time is:"**+Time(),Toast.LENGTH\_LONG).show();  
 }  
 @RequiresApi(api = Build.VERSION\_CODES.M)  
 **public** String Time()  
 {  
 StringBuilder stringBuilder = **new** StringBuilder();  
 stringBuilder.append(timePicker.getHour()+**":"**);  
 stringBuilder.append(timePicker.getMinute());  
 **return** stringBuilder.toString();  
 }  
}