

```
package com.example.helloworld;
import android.os.Bundle;
import android.app.Activity;
import android.graphics.Color;
import android.widget.RelativeLayout;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends
Activity
{
    RelativeLayout ab;
    TextView cd;
    @Override
    protected void onCreate(Bundle
savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        ab = (RelativeLayout)
findViewById(R.id.r);
        cd = (TextView)
findViewById(R.id.textView);
        ab.setBackgroundColor(Color.BLACK);
        cd.setTextColor(Color.RED);
        Toast.makeText(this, "Hello World",
Toast.LENGTH_LONG).show();
    }
}
```

```
package com.example.addition;
import android.os.Bundle;
import android.app.Activity;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends
Activity
{
    @Override
    protected void onCreate(Bundle
savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void sum(View v)
    {
        EditText
e1=(EditText)findViewById(R.id.editText1)
;
        EditText
e2=(EditText)findViewById(R.id.editText
2);
        TextView
t1=(TextView)findViewById(R.id.tv1);
        int a =
Integer.parseInt(e1.getText().toString());
        int b =
Integer.parseInt(e2.getText().toString());
        int c = a+b;
        t1.setText(Integer.toString(c));
    }
}
```

```
package com.example.alertbox;
import android.os.Bundle;
import android.app.Activity;
import android.app.AlertDialog;
import android.content.DialogInterface;
import android.view.View;
public class MainActivity extends
Activity
{
    @Override
    protected void onCreate(Bundle
savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void showAlert(View v)
    {
        AlertDialog.Builder alertDB = new
AlertDialog.Builder(this);alertDB.setTitl
e("Your Title");
        alertDB.setMessage("Click yes to
exit!!").setCancelable(false)
        .setPositiveButton("Yes",new
DialogInterface.OnClickListener()
        {
            public void onClick(DialogInterface
dialog, int id)
            {
                MainActivity.this.finish();
            }
        }
    }
}
```

```

    }).setNegativeButton("No",new
    DialogInterface.OnClickListener()
    {
        public void onClick(DialogInterface
        dialog, int id) {
            dialog.cancel();
        }
    });
    AlertDialog alertD = alertDB.create();
    alertD.show();
}
}
}

```

```
package com.example.menu;
import android.os.Bundle;
import android.app.Activity;
import android.view.ContextMenu;
import
android.view.ContextMenu.ContextMen
ulInfo;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.LinearLayout;
import android.widget.Toast;
public class MainActivity extends
Activity
{
    LinearLayout ll;
    @Override
    protected void onCreate(Bundle
savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        ll=(LinearLayout)
findViewById(R.id.linearlayout);
        ll.setOnCreateContextMenuListener(thi
s);
    }
    @Override
    public boolean
onCreateOptionsMenu(Menu menu)
    {
        menu.add(0,0,0, "item 1");
        menu.add(0,1,1, "item 2");
        menu.add(0,2,2, "item 3");
        return true;
    }
    @Override
    public boolean
onOptionsItemSelected(MenuItem item)
    {
        super.onOptionsItemSelected(item);
        Toast.makeText(this,
item.getTitle().toString(),
Toast.LENGTH_SHORT).show();
        return true;
    }
    @Override
    public void
onCreateContextMenu(ContextMenu
menu, View v,
ContextMenuInfo menuInfo)
    {
        super.onCreateContextMenu(menu, v,
menuInfo);
        menu.add(0,0,0, "item 1");
        menu.add(0,1,1, "item 2");
        menu.add(0,2,2, "item 3");
    }
    @Override
    public boolean
onContextItemSelected(MenuItem item)
    {
        super.onContextItemSelected(item);
        Toast.makeText(this, item.getTitle(),
Toast.LENGTH_SHORT).show();
        return true;
    }
}
```

```
package com.example.radiobtn;
import android.os.Bundle;
import android.app.Activity;
import android.view.View;
import
android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.RadioButton;
import android.widget.TextView;
public class MainActivity extends
Activity implements OnClickListener
{
    RadioButton rdmale, rdfemale;
    Button btshow, btdefault;
```

```
TextView txtmsg; @Override
protected void onCreate(Bundle
savedInstanceState)
{
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    rdmale = (RadioButton)
    findViewById(R.id.radiomale);
    rdfemale = (RadioButton)
    findViewById(R.id.radiofemale);
    btshow = (Button)
    findViewById(R.id.buttonshow);
    btdefault = (Button)
    findViewById(R.id.buttondefault);
    txtmsg = (TextView)
    findViewById(R.id.txtmsg);
    txtmsg.setText("");
    btshow.setOnClickListener(this);
    btdefault.setOnClickListener(this);
}
@Override
public void onClick(View v)
{
    Button action=(Button) v;
    if(action.getId()==btshow.getId())
    {
        String msg="You Are ";
        if(rdmale.isChecked())
            msg=msg+rdmale.getText().toString();
        else if(rdfemale.isChecked())
            msg=msg+rdfemale.getText().toString();
        txtmsg.setText(msg);
    }
    else if(action.getId()==btdefault.getId())
    {
        rdmale.setChecked(true);
        txtmsg.setText("");
    }
}
```

```
package com.example.spinner;
import android.os.Bundle;
import android.app.Activity;
import android.view.View;
import
android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Spinner;
import android.widget.Toast;
public class MainActivity extends
Activity implements
OnItemSelectedListener
{
String
String[]={"Automobile","Business","E
ducation","Personal"};
Spinner spin;
@Override
protected void onCreate(Bundle
savedInstanceState)
{
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
spin=(Spinner)
findViewById(R.id.spinner1);
ArrayAdapter<String> arr = new
ArrayAdapter<String>(this,
android.R.layout.simple_spinner_item,c
ategory);
arr.setDropDownViewResource(android
.R.layout.simple_spinner_dropdown_it
em);
spin.setAdapter(arr);
spin.setOnItemSelectedListener(this);
}
@Override
public void
onItemSelected(AdapterView<?> arg0,
View arg1, int
arg2, long arg3)
{
Toast.makeText(this, "Selected : "
+spin.getSelectedItem(),
Toast.LENGTH_SHORT).show();
}
@Override
public void
onNothingSelected(AdapterView<?>
arg0)
{
}
}
```

```
package com.example.checkbox;
import android.os.Bundle;
import android.app.Activity;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.TextView;
public class MainActivity extends
Activity
{
    CheckBox cbPaint,cbRead,cbCook;
    Button btnShow;
    TextView tv;
    @Override
    protected void onCreate(Bundle
savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        tv =
        (TextView)findViewById(R.id.tvDetails);
        tv.setText("");
        } public void onClickShow(View v)
        {
            cbPaint=(CheckBox)findViewById(R.id.c
bPaint);
            cbRead=(CheckBox)findViewById(R.id.c
bRead);
            cbCook=(CheckBox)findViewById(R.id.c
bCook);
            tv.setText("I Like ");
            if(cbPaint.isChecked()) {
                tv.setText(tv.getText().toString()+"\n"+
cbPaint.getText().toString());
            }
            if(cbRead.isChecked()) {
                tv.setText(tv.getText().toString()+"
\n"+cbRead.getText().toString());
            }
            if(cbCook.isChecked()) {
                tv.setText(tv.getText().toString()+"
\n"+cbCook.getText().toString());
            }
            if((cbPaint.isChecked()&&cbRead.isChe
cked)&&cbCook.isChecked()) {
                tv.setText("");
            }
        }
    }
}
```

```
package com.example.imgview;
import android.os.Bundle;
import android.app.Activity;
import android.view.View;
import android.widget.ImageView;
public class MainActivity extends
Activity
{
    ImageView imgView;
    @Override
    protected void onCreate(Bundle
savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void changeImg(View v)
    {
        imgView = (ImageView)
findViewById(R.id.imgView);
        imgView.setImageResource(R.drawable
e.img);
    }
}
```

```
package com.example.listView;
import android.os.Bundle;
import android.app.Activity;
import android.view.View;
import android.widget.AdapterView;
import
android.widget.AdapterView.OnItemClickListener;
ListView;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;
public class MainActivity extends
Activity implements
OnItemClickListener
{ListView lv;
String
course[]={"MCA","MBA","BCA","BBA","B
COM"}
@Override
protected void onCreate(Bundle
savedInstanceState)
{
```

```

super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
try
{
    lv=(ListView)
    findViewById(R.id.listViewource);
    ArrayAdapter<String> arr=new
    ArrayAdapter<String>(this,
    android.R.layout.simple_list_item_1,cou
    rce);
    lv.setAdapter(arr);
    lv.setOnItemClickListener(this);
}
catch(Exception e)
{
    Toast.makeText(this,e.toString(),
    Toast.LENGTH_LONG).show();
}
@Override
public void
onItemClick(AdapterView<?> arg0, View
    arg1, int
    position, long arg3)
{
    Toast.makeText(this, source[position] +
    " is selected.",
    Toast.LENGTH_SHORT).show();
}
}

```

#### Fetch data from an EditText and display

```

package com.example.fetchdata;
import android.os.Bundle;import
android.app.Activity;
import android.view.Menu;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends
Activity {
    Button ok;
    EditText edt;
    TextView tv;
    @Override
    protected void onCreate(Bundle
    savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        ok = (Button) findViewById(R.id.button1);
        edt = (EditText)
        findViewById(R.id.editText1);
        tv = (TextView)
        findViewById(R.id.textView1);
        ok.setOnClickListener(new
        View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String msg = edt.getText().toString();
                tv.setText(msg);
            }
        });
    }
}

```

#### Multiplication

```

package com.example.multiplication;
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;import
android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends
Activity {
    EditText inputNumber;
    Button btnOK;
    EditText txtResult;
    @Override
    protected void onCreate(Bundle
    savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        btnOK = (Button)
        findViewById(R.id.btnOK);
        inputNumber = (EditText)
        findViewById(R.id.txtNumkber);
        txtResult = (EditText)
        findViewById(R.id.txtResult);
        btnOK.setOnClickListener(new
        View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String value =
                inputNumber.getText().toString();
                int number = Integer.parseInt(value);
                for(int i=1;i<=10;i++){

```

```

txtResult.setText(txtResult.getText().to
    String()+"\n"+number+"x"+i+"="+
    (number*i)); }
}
});
}
}

```

#### IP Address

```

package com.example.ipadrs;
import java.net.InetAddress;
import java.net.NetworkInterface;
import java.util.Collections;
import java.util.List;
import android.app.Activity;
import android.net.wifi.WifiManager;
import android.os.Bundle;
import android.text.format.Formatter;
import android.view.Menu;
import android.widget.TextView;
public class MainActivity extends
Activity {
    TextView tv;
    protected void onCreate(Bundle
    savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        tv = (TextView)
        findViewById(R.id.textView1);
        WifiManager wm = (WifiManager)
        getSystemService(WIFI_SERVICE);Strin
        g ipAddress = getIPAddress();
        tv.setText("Your Device IP Address: " +
        ipAddress);
    }
    public static String getIPAddress() {
        try {
            String ip6="";
            List<NetworkInterface> interfaces =
            Collections.list(NetworkInterface.getNe
            tworkInterfaces());
            for (NetworkInterface intf : interfaces)
            {
                List<InetAddress> addrs =
                Collections.list(intf.getInetAddresses());
                for (InetAddress addr : addrs) {
                    if (addr.isLoopbackAddress()) {
                        String sAddr = addr.getHostAddress();
                        boolean isIPv4 = sAddr.indexOf('.')<0;
                        if (isIPv4)
                            return sAddr;
                        else {
                            int delim = sAddr.indexOf('%');
                            ip6= delim<0 ? sAddr.toUpperCase() :
                            sAddr.substring(0,
                            delim).toUpperCase();
                        }
                    }
                }
            }
            return ip6; } catch (Exception ignored)
            {}
            return "";
        }
        @Override
        public boolean
        onCreateOptionsMenu(Menu menu) {
            getMenuInflater().inflate(R.menu.main,
            menu);
            return true;
        }
    }
}

```

#### Change the Background colour of the Activity.

```

package
com.example.backgroundcolor;
import android.os.Bundle;
import android.app.Activity;
import android.graphics.Color;
import android.view.Menu;
import android.view.View;
import android.widget.Button;
public class MainActivity extends
Activity {
    Button btnOK;
    @Override
    protected void onCreate(Bundle
    savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        btnOK = (Button)
        findViewById(R.id.btnChangeColor);
        btnOK.setOnClickListener(new
        View.OnClickListener() {
            @Override
            public void onClick(View v) {
                setActivityBackgroundColor(Color.BLUE);

```

```

}
});
}
}
public void
setActivityBackgroundColor(int color)
{ View view =
this.getWindow().getDecorView();
view.setBackgroundColor(color);
}
}
}

```

#### Background Image

```

package
com.example.backgroundimage;import
android.os.Bundle;
import android.app.Activity;
import android.graphics.Color;
import android.view.Menu;
import android.view.View;
import android.widget.Button;
import android.widget.LinearLayout;
public class MainActivity extends
Activity {
    Button btnOK;
    @Override
    protected void onCreate(Bundle
    savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        btnOK = (Button)
        findViewById(R.id.btnChangeImage);
        btnOK.setOnClickListener(new
        View.OnClickListener() {
            @Override
            public void onClick(View v) {
                LinearLayout mLinearLayout =
                (LinearLayout)
                findViewById(R.id.myLayout);
                mLinearLayout.setBackgroundResourc
                e(R.drawable.download);
            }
        });
    }
}

```

#### INTENT

```

Mainactivity.java
package com.example.intent;
import android.os.Bundle;
import android.app.Activity;import
android.content.Intent;
import android.view.Menu;
import android.view.View;
public class MainActivity extends
Activity {
    @Override
    protected void onCreate(Bundle
    savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void StartNewActivityClick(View
    v){
        Intent intent = new
        Intent(this,Second.class);
        startActivity(intent);
    }
}

```

#### Second.java

```

package com.example.intent;
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;public class
Second extends Activity {
    @Override
    protected void onCreate(Bundle
    savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_secon
        d);
    }
}

```