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Exercise : 1

Create "Hello World" application. That will display "Hello World" in the middle of the screen in the red color with white background.

File Name : main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
        android:orientation="vertical"
        android:layout_width="fill_parent"
        android:layout_height="fill_parent"
        android:background="#FFFFFF">
    <TextView android:layout_height="wrap_content"
        android:layout_width="fill_parent" android:textColor="#000000"
        android:text="www.master-gtu.blogspot.com"
        android:layout_alignParentTop="true"
        android:layout_alignParentLeft="true"
        android:paddingLeft="60dp"></TextView>
    <TextView android:layout_height="wrap_content"
        android:id="@+id/textView1"
        android:textAppearance="?android:attr/textAppearanceLarge"
        android:layout_width="wrap_content"
        android:layout_centerVertical="true"
        android:layout_centerHorizontal="true" android:textColor="#FF0000"
        android:text="HELLO WORLD"></TextView>
</RelativeLayout>
```



Exercise : 2**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 Tost
- c. Also pass username to next screen.

File Name : PROGRAM 2.html

```
package ps.pro2;
package ps.pro2;
import android.app.Activity;
import android.content.Intent;
import android.view.View.*;
import android.os.Bundle;
import android.widget.*;

public class Pro2Activity extends Activity implements View.OnClickListener {
    Button btlogin,btclear;
    EditText editusername,editpassword;
    TextView textmsg;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        editusername=(EditText)findViewById(R.id.username);
        editpassword=(EditText)findViewById(R.id.password);
        btlogin=(Button) findViewById(R.id.btlogin);
        btclear=(Button) findViewById(R.id.btclear);
        btlogin.setOnClickListener(this);
        btclear.setOnClickListener(this);
    }
    @Override
    public void onClick(View v) {
        // TODO Auto-generated method stub
        Button action=(Button) v;
        String name,pass;
        boolean flagusername=false;
        boolean flagpassword=false;
        name=editusername.getText().toString();
        pass=editpassword.getText().toString();
        if(name.equals("")){      flagusername=true;      }
        if(pass.equals("")) {      flagpassword=true;      }
        if(btlogin.getId()==action.getId())    {
            if(flagusername==false && flagpassword==false)      {
                if(pass.equals(name+"@123"))      {
                    Toast.makeText(this,"Login success...", Toast.LENGTH_SHORT).show();
                }
            }
        }
    }
}
```

```

Intent myintent=new Intent(this,home.class);
myintent.putExtra("name", name);
this.startActivity(myintent);
    }
    else
Toast.makeText(this,"Login faild...", Toast.LENGTH_SHORT).show();
    }
    else {      if(flagusername==true)
Toast.makeText(this,"Pls Enter Username...", Toast.LENGTH_SHORT).show();
else if(flagpassword==true)
Toast.makeText(this,"Pls Enter Password...", Toast.LENGTH_SHORT).show();
}}
else if(btclear.getId()==action.getId()){
if(flagusername==false || flagpassword==false){
editusername.setText("");
    editpassword.setText("");
    Toast.makeText(this,"Field Cleared...", Toast.LENGTH_SHORT).show();
}
else {
Toast.makeText(this,"Already Cleared...", Toast.LENGTH_SHORT).show();
}}}}

```

FILE Name : home.java

```

package ps.pro2;
import android.app.Activity;
import android.os.Bundle;
import android.view.View.*;
import android.widget.*;
public class home extends Activity implements
OnClickListener {
TextView textmsg;
    Button btback;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.home);
        textmsg=(TextView) findViewById(R.id.textmsg);
        btback=(Button) findViewById(R.id.btback);
        btback.setOnClickListener(this);
    }
}

```



Exercise : 3

Create login application where you will have to validate EmailID(Username). Till the username and password is not validated , login button should remain disabled.

File Name : pro3.java

```
package ps.pro3;
import android.app.Activity;
import android.os.Bundle;
import android.text.*;
import android.view.View.*;
import android.widget.*;
public class Pro3Activity extends Activity implements TextWatcher,
OnClickListener {
    EditText editemailid,editpassword;
    Button btlogin,btclear;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        editemailid=(EditText) findViewById(R.id.editemail);
        editpassword=(EditText)findViewById(R.id.editpassword);
        btlogin=(Button) findViewById(R.id.btlogin);
        btclear=(Button) findViewById(R.id.btclear);
        editemailid.addTextChangedListener(this);
        editpassword.addTextChangedListener(this);
        btclear.setOnClickListener(this);
        btlogin.setOnClickListener(this);
        editemailid.setFocusable(true);
    }
    @Override
    public void afterTextChanged(Editable v) {
        int fatpos,latpos,fdotpos,ldotpos,i;
        String email=editemailid.getText().toString();
        String pass=editpassword.getText().toString();
        boolean emailflag=true,passflag=true,flag=false;
        fatpos=email.indexOf("@");
        latpos=email.lastIndexOf("@");
        fdotpos=email.indexOf(".");
        ldotpos=email.lastIndexOf(".");
        if(email.equals("")) emailflag=false;
        else if(fatpos== -1) emailflag=false;
        else if(fatpos!=latpos) emailflag=false;
        else if(fdotpos== -1 ) emailflag=false;
        else if(fdotpos==0) emailflag=false;
        else if(fatpos==0) emailflag=false;
```

```

else if(latpos==email.length()-1)    emailflag=false;
else if(email.charAt(fatpos-1)=='.' || email.charAt(fatpos+1)=='.')
    emailflag=false;
else if(latpos==email.length()-1)    emailflag=false;
else if(latpos<fatpos)                emailflag=false;
else if(fdotpos!=ldotpos){
for(i=fdotpos; i<=ldotpos; i++){
    if(email.charAt(i)=='.') {    if(flag==true)        {
        emailflag=false;
        break; }
flag=true;    }
else
    flag=false;}}
if(pass.equals(""))
    passflag=false;
if(emailflag==true && passflag==true){
    btlogin.setEnabled(true);
}}
@Override
public void beforeTextChanged(CharSequence arg0, int arg1, int arg2,
    int arg3) {}
@Override
public void onTextChanged(CharSequence arg0, int arg1, int arg2, int arg3) {}
@Override
public void onClick(View v) {
    Button action=(Button) v;
    if(action.getId()==btlogin.getId()){
        Toast.makeText(this, "Login Success...", Toast.LENGTH_SHORT).show();
    }
    else if(action.getId()==btclear.getId())
    {
        if(!editmailid.getText().toString().equals("") ||
        !editpassword.getText().toString().equals(""))
        {

            editmailid.setText("");
            editpassword.setText("");
        }
        Else
        {
            Toast.makeText(this,"Already Cleared...", 100).show();
        }}}

```



Exercise : 4

Create and Login application as above . On successful login , open browser with any URL

File Name : pro4.java

```
package ps.pro4;
import android.app.Activity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View.*;
import android.widget.*;

public class Pro4Activity extends Activity implements OnClickListener {
    Button btlogin, btclear;
    EditText editemail, editpass;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        editemail=(EditText) findViewById(R.id.editemail);
        editpass=(EditText) findViewById(R.id.editpass);
        btlogin=(Button) findViewById(R.id.btlogin);
        btclear=(Button) findViewById(R.id.btclear);
        btlogin.setOnClickListener(this);
        btclear.setOnClickListener(this);
    }

    @Override
    public void onClick(View v) {
        Button action=(Button) v;
        if(action.getId()==btlogin.getId()){
            String email=editemail.getText().toString();
            String pass=editpass.getText().toString();
            if(email.equals("pankaj@gmail.com") && pass.equals("pankaj"))
            {
                Intent myintent=new
                Intent(Intent.ACTION_VIEW,Uri.parse("http://www.gmail.com"));
                this.startActivity(myintent);
            }
            else {
                Toast.makeText(this,"Sorry", Toast.LENGTH_SHORT).show();
            }
        }
        else if(action.getId()==btclear.getId())
        {
            if(!editemail.getText().toString().equals("") ||
            !editpass.getText().toString().equals("")){
                editemail.setText("");
            }
        }
    }
}
```



```
        editpass.setText("");  
    }    else  
    {  
    Toast.makeText(this,"Already Cleared...", Toast.LENGTH_SHORT).show();  
    }}  
}}
```



Exercise : 5

Create an application that will pass some number to the next screen , and on the next screen that number of items should be display in the list.

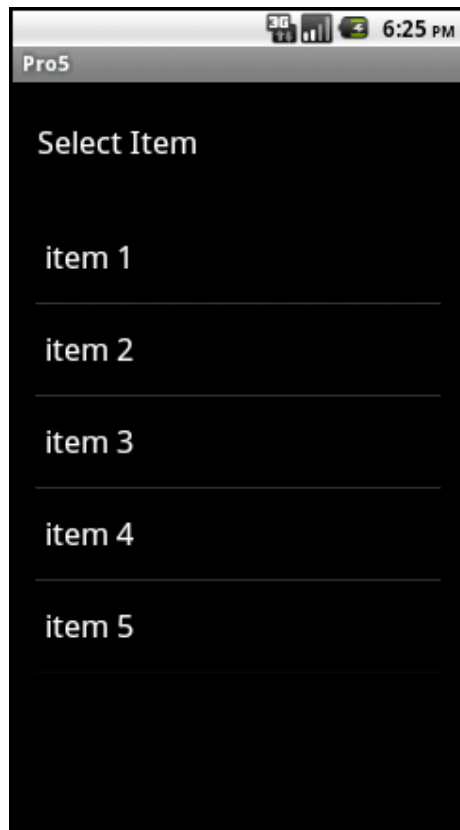
File Name : pro5.java

```
package ps.pro5;
import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View.*;
import android.widget.*;
public class Pro5Activity extends Activity implements OnClickListener {
    EditText editnum;
    Button btshow;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        editnum=(EditText) findViewById(R.id.editTextNumber);
        btshow=(Button) findViewById(R.id.buttonshow);
        btshow.setOnClickListener(this);
    }
    @Override
    public void onClick(View v) {
        if(v.getId()==btshow.getId())
        {
            Intent myintent=new Intent(this,listActivity.class);
            myintent.putExtra("num", Integer.parseInt(editnum.getText().toString()));
            this.startActivity(myintent);
        }
    }
}
```

FILE NAME:ListActivity.java

```
package ps.pro5;
import android.app.Activity;
import android.os.Bundle;
import android.view.View.*;
import android.widget.*;
public class listActivity extends Activity implements OnItemClickListener {
    /** Called when the activity is first created. */
    ListView lv;
    String items[];
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.listlayout);
    }
}
```

```
lv=(ListView) findViewById(R.id.listViewItems);
int num=getIntent().getIntExtra("num", 0);
items=new String[num];
for(int i=0;i<num;i++)
{
    items[i]="item "+(i+1);
}
ArrayAdapter<String> arr=new ArrayAdapter<String>(this,
android.R.layout.simple_list_item_1,items);
lv.setAdapter(arr);
lv.setOnItemClickListener(this);
}
@Override
public void onItemClick(AdapterView<?> arg0, View arg1, int pos, long arg3) {
    Toast.makeText(this,items[pos] + " selected", Toast.LENGTH_SHORT).show();
}}
```



Exercise : 6**Understand resource folders :**

- a. Create spinner with strings taken from resource folder(res >> value folder).
- b. On changing spinner value, change image.

File Name : pro6.java

```

package ps.pro6;
import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.widget.*;
public class Pro6Activity extends Activity implements OnItemSelectedListener {
    Spinner spin;
    ImageView img;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        spin=(Spinner) findViewById(R.id.spinnernames);
        img=(ImageView) findViewById(R.id.imageView1);
        spin.setOnItemSelectedListener(this);
    }
    @Override
    public void onItemSelected(AdapterView<?> arg0, View arg1, int arg2,
        long arg3) {
        String
name=spin.getSelectedItem().toString();
if(name.equals("AMI"))
img.setImageResource(R.drawable.ami);
else if(name.equals("MEHUL"))
img.setImageResource(R.drawable.mehul);
else if(name.equals("PANKAJ"))
img.setImageResource(R.drawable.pankaj);
else if(name.equals("JIGNESH"))
img.setImageResource(R.drawable.jignesh);
else if(name.equals("VIJAY"))
img.setImageResource(R.drawable.vijay);
else if(name.equals("SATISH"))
img.setImageResource(R.drawable.satish);
}
    @Override
    public void onNothingSelected(AdapterView<?>
arg0) {
    }}

```



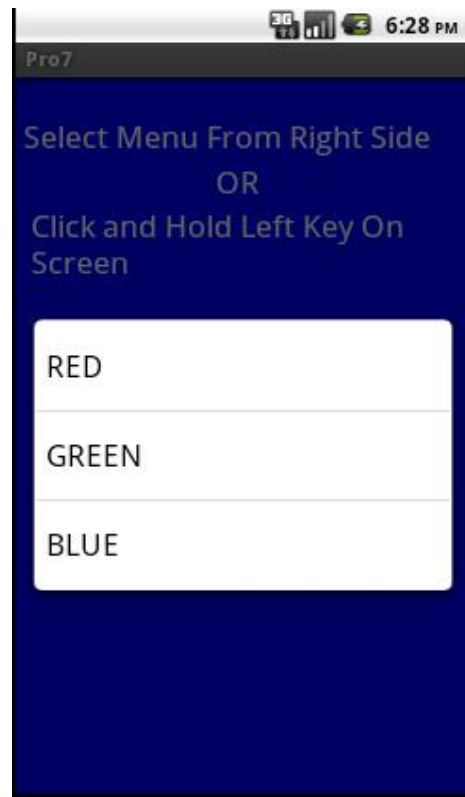
Exercise : 7**Understand Menu option**

- a. Create an application that will change color of the screen, based on selected options from the menu.

File Name : pro7.java

```
package ps.pro7;
import android.app.Activity;
import android.graphics.Color;
import android.os.Bundle;
import android.view.*;
import android.view.View.*;
import android.widget.AbsoluteLayout;
@SuppressWarnings("deprecation")
public class Pro7Activity extends Activity {
    AbsoluteLayout al;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        al=(AbsoluteLayout) findViewById(R.id.alayout);
        al.setOnCreateContextMenuListener(this);
    }
    public void createMenu(Menu menu) {
        MenuItem m1=menu.add(0,0,0,"RED");
        m1.setAlphabeticShortcut('r');
        m1.setIcon(R.drawable.icon);
        MenuItem m2=menu.add(0,1,1,"GREEN");
        m2.setAlphabeticShortcut('g');
        m1.setIcon(R.drawable.icon);
        MenuItem m3=menu.add(0,2,2,"BLUE");
        m3.setAlphabeticShortcut('b');
        m1.setIcon(R.drawable.icon);
    }
    public void listenMenu(MenuItem item){        int id=item.getItemId();
        switch(id)    {
            case 0:
                al.setBackgroundColor(Color.RED);
                break;
            case 1:
                al.setBackgroundColor(Color.GREEN);
                break;
            case 2:
                al.setBackgroundColor(Color.BLUE);
                break;
```

```
    }    }  
    @Override  
    public boolean onCreateOptionsMenu(Menu menu) {  
        super.onCreateOptionsMenu(menu);  
        createMenu(menu);  
        return true;  
    }  
    @Override  
    public boolean onOptionsItemSelected(MenuItem item) {  
        super.onOptionsItemSelected(item);  
        listenMenu(item);  
        return true;  
    }  
    @Override  
    public void onCreateContextMenu(ContextMenu menu, View v,  
        ContextMenuInfo menuInfo) {  
        // TODO Auto-generated method stub  
        super.onCreateContextMenu(menu, v, menuInfo);  
        createMenu(menu);  
    }  
    @Override  
    public boolean onContextItemSelected(MenuItem item) {  
        // TODO Auto-generated method stub  
        super.onContextItemSelected(item);  
        listenMenu(item);  
        return true;  
    }  
}}
```

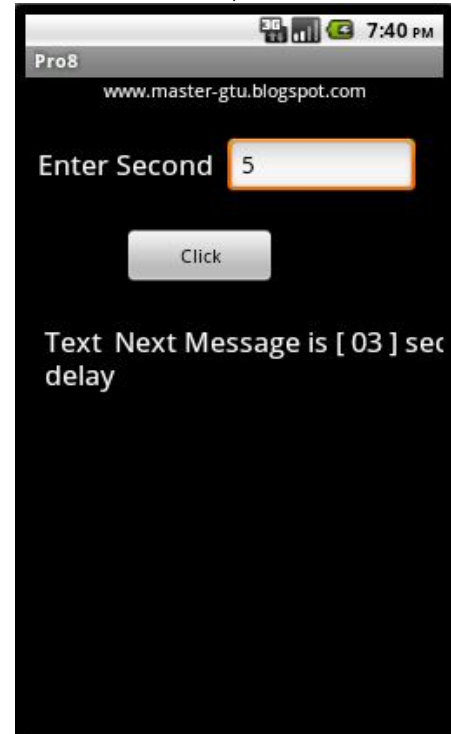


Exercise : 8

Create an application that will display toast(Message) on specific interval of time

File Name : pro8.java

```
package ps.pro8;
import android.app.Activity;
import android.os.Bundle;
import android.view.View.*;
import android.widget.*;
public class Pro8Activity extends Activity implements OnClickListener,
OnChronometerTickListener {
    EditText editsec;
    Button btclick;
    TextView msg;
    Chronometer timer;
    int sec=0,delay=0;
    @Override
    public void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        editsec=(EditText) findViewById(R.id.editTextsec);
        btclick=(Button) findViewById(R.id.buttonclick);
        msg=(TextView) findViewById(R.id.textViewmsg);
        timer=(Chronometer)
        findViewById(R.id.chronometer1);
        btclick.setOnClickListener(this);
        timer.setOnChronometerTickListener(this);
    }
    @Override
    public void onClick(View v) {
        if(v.getId()==btclick.getId()){
            delay=Integer.parseInt(editsec.getText().toString());
            sec=0;
            timer.start();
        }
    }
    @Override
    public void onChronometerTick(Chronometer arg0) {
        msg.setText("Text Next Message is [ 0"+ (delay-sec) +" ] sec delay");
        sec++;
        if(sec==delay) {
            sec=0;
            Toast.makeText(this, "Heres The Message...", Toast.LENGTH_SHORT).show();
        }
    }
}
```



Exercise : 10

Create an application that will display toast(Message) on specific interval of time

File Name : pro10.java

```
package ps.pro10;
```

```
import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.view.animation.Animation;
import android.view.animation.AnimationUtils;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ImageView;
import android.widget.Spinner;
```

```
public class Pro10Activity extends Activity implements OnItemClickListener {
    /** Called when the activity is first created. */
    Spinner spin;
    ImageView imgmaster;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        spin=(Spinner) findViewById(R.id.spinnereffect);
        imgmaster=(ImageView) findViewById(R.id.imageViewmaster);

        spin.setOnItemClickListener(this);
    }
}
```

```
@Override
public void onItemClick(AdapterView<?> arg0, View arg1, int arg2,
    long arg3) {
    // TODO Auto-generated method stub
    Animation anim=AnimationUtils.loadAnimation(this, R.anim.alpha);
    if(spin.getSelectedItem().equals("alpha"))
        anim=AnimationUtils.loadAnimation(this, R.anim.alpha);
    else if(spin.getSelectedItem().equals("Rotate"))
        anim=AnimationUtils.loadAnimation(this, R.anim.rotate);
    else if(spin.getSelectedItem().equals("Scale"))
        anim=AnimationUtils.loadAnimation(this, R.anim.scale);
    else if(spin.getSelectedItem().equals("Translate"))
        anim=AnimationUtils.loadAnimation(this, R.anim.translate);
}
```



```
        imgmaster.startAnimation(anim);
    }

    @Override
    public void onNothingSelected(AdapterView<?> arg0) {
        // TODO Auto-generated method stub

    }
}
```

FILE NAME: alpha.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android">
    <alpha
        android:fromAlpha="0.0"
        android:toAlpha="1.0"
        android:duration="5000"
    ></alpha>
</set>
```

FILE NAME: rotate.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android">
    <rotate
        android:fromDegrees="0"
        android:toDegrees="360"
        android:pivotX="50%"
        android:pivotY="50%"
        android:duration="5000"
    ></rotate>
</set>
```

FILE NAME: scale.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android">
    <scale
        android:pivotX="50%"
        android:pivotY="50%"
        android:fromXScale="1.0"
        android:fromYScale="1.0"
        android:toXScale="2.0"
        android:toYScale="2.0"
        android:duration="5000"
    />
</set>
```

FILE NAME: translate.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android">
    <translate
        android:toYDelta="-100"
        android:fillAfter="true"
        android:duration="5000">
    </translate>
</set>
```



Exercise : 11

Understanding of UI :

- a. Create an UI such that , one screen have list of all the types of cars.
- b. On selecting of any car name, next screen should show Car details like : name , launched date , company name, images(using gallery) if available, show different colors in which it is available.

File Name : pro11Activity.java

```
package ps.pro11;
```

```
import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.Toast;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ListView;
```

```
public class Pro11Activity extends Activity implements OnItemClickListener {
    ListView lv;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        lv=(ListView) findViewById(R.id.listView1);
        lv.setOnItemClickListener(this);
    }
    @Override
    public void onItemClick(AdapterView<?> arg0, View arg1, int pos, long arg3) {
        Toast.makeText(this, pos + " click", Toast.LENGTH_SHORT).show();
        Intent myintent=new Intent(this,Details.class);
        myintent.putExtra("id", pos);
        startActivity(myintent);
    }
}
```

File Name : ImageAdapter.java

```
package ps.pro11;
import android.content.Context;
import android.util.Log;
import android.*;
import android.widget.*;
```

```
public class ImageAdapter extends BaseAdapter {
    Context c;
    int id;
    Integer
    listmarutisuzuki[]={R.drawable.marutisuzuki1,R.drawable.marutisuzuki2,R.drawable.marutisuzuki
3};
    Integer listalto[]={R.drawable.alto1,R.drawable.alto2,R.drawable.alto3};
    Integer listhundai[]={R.drawable.hundai1,R.drawable.hundai2,R.drawable.hundai3};
    Integer listoodi[]={R.drawable.oodi1,R.drawable.oodi2,R.drawable.oodi3};
    public ImageAdapter(Context c,int id) {
        this.c=c;
        this.id=id;
        Log.d("master", id+"clicked");
    }
    @Override
```

```

        public int getCount() {
            if(id==0)          {          return listmarutisuzuki.length;          }
            if(id==1)          {          return listalto.length;          }
            if(id==2)          {          return listhundai.length;          }
            if(id==3)          {          return listoodi.length;          }
            return listmarutisuzuki.length;
        }
        @Override
        public Object getItem(int arg0) {          return arg0;          }
        @Override
        public long getItemId(int arg0) {          return arg0;          }
        @Override
        public View getView(int arg0, View arg1, ViewGroup arg2) {
            ImageView img=new ImageView(c);
            if(id==0)          {          img.setImageResource(listmarutisuzuki[arg0]);          }
            if(id==1)          {          img.setImageResource(listalto[arg0]);          }
            if(id==2)          {          img.setImageResource(listhundai[arg0]);          }
            if(id==3)          {          img.setImageResource(listoodi[arg0]);          }
            img.setScaleType(ImageView.ScaleType.FIT_XY);
            img.setLayoutParams(new Gallery.LayoutParams(120, 200));
            return img;
        }
    }

```

File Name : enlarge.java

```

package ps.pro11;
import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.ImageView;
public class enlarge extends Activity {
    ImageView imgview;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        // TODO Auto-generated method stub
        super.onCreate(savedInstanceState);
        setContentView(R.layout.enlarge);
        Intent myintent2=getIntent();
        int id=myintent2.getIntExtra("id", 0);
        imgview=(ImageView) findViewById(R.id.imageView1);
        imgview.setImageResource(id);
    }
}

```

File Name : Details.java

```

package ps.pro11;
import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.*;
public class Details extends Activity implements OnItemClickListener {
    TextView tvname,tvdate,tvcompanyname;
    Gallery gv;
    ImageAdapter obj;
    int id=0;
}

```

```

Integer
listmarutisuzuki[]={R.drawable.marutisuzuki1,R.drawable.marutisuzuki2,R.drawable.marutisuzuki
3};

Integer listalto[]={R.drawable.alto1,R.drawable.alto2,R.drawable.alto3};
Integer listhundai[]={R.drawable.hundai1,R.drawable.hundai2,R.drawable.hundai3};
Integer listoodi[]={R.drawable.oodi1,R.drawable.oodi2,R.drawable.oodi3};
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.details);
    tvname=(TextView) findViewById(R.id.textViewname);
    tvdate=(TextView) findViewById(R.id.textViewdate);
    tvcompanyname=(TextView) findViewById(R.id.textViewcompanyname);
    gv=(Gallery) findViewById(R.id.gallery1);
    Intent myintent=getIntent();
    id=myintent.getIntExtra("id", 0);
    if(id==0)
    {
        tvname.setText("maruti suzuki");
        tvdate.setText("1-12-1987");
        tvcompanyname.setText("Maruti");
    }
    if(id==1)
    {
        Toast.makeText(this, id+" clicked", Toast.LENGTH_SHORT).show();
        tvname.setText("maruti alto");
        tvdate.setText("2-01-1988");
        tvcompanyname.setText("Maruti");
    }
    if(id==2)
    {
        tvname.setText("hundai i10");
        tvdate.setText("2-12-1987");
        tvcompanyname.setText("Hundai");
    }
    if(id==3)
    {
        tvname.setText("oodi");
        tvdate.setText("1-10-1993");
        tvcompanyname.setText("Oodi");
    }

    obj=new ImageAdapter(this,id);
    gv.setAdapter(obj);
    gv.setOnItemClickListener(this);
}
@Override
public void onItemClick(AdapterView<?> arg0, View arg1, int pos, long arg3)
{
    // TODO Auto-generated method stub
    Intent myintent2=new Intent(this,enlarge.class);
    if(id==0)
        myintent2.putExtra("id", listmarutisuzuki[pos]);
    else if(id==1)
        myintent2.putExtra("id", listalto[pos]);

```

```
        else if(id==2)
            myintent2.putExtra("id", listhundai[pos]);
        else if(id==3)
            myintent2.putExtra("id", listoodi[pos]);
        startActivity(myintent2);
    }
}
```

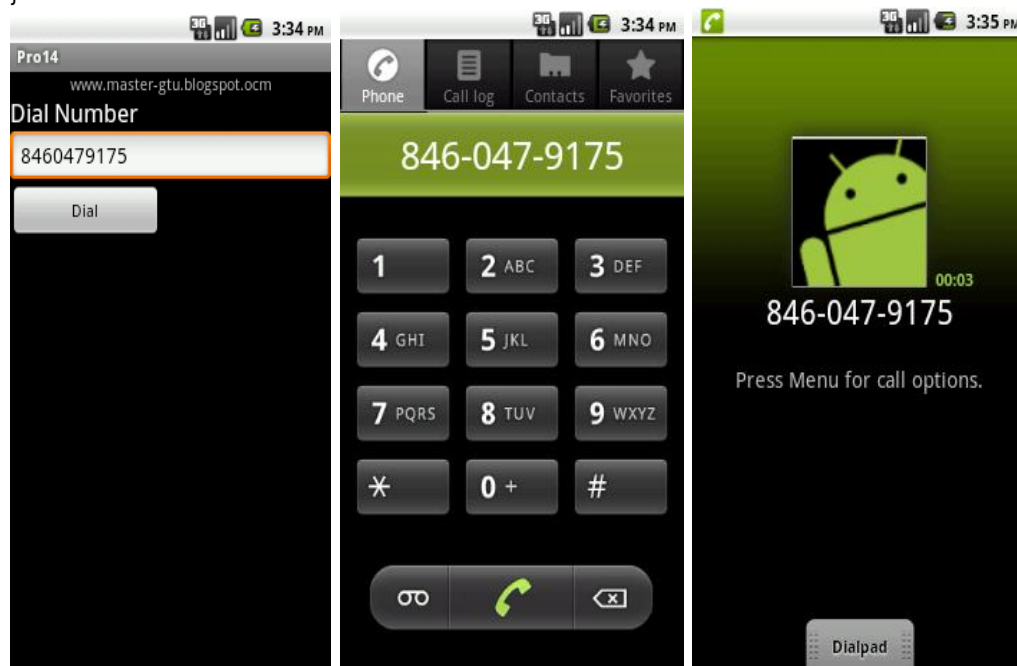


Exercise : 14

Create an application to call specific entered number by user in the EditText.

File Name : pro14Activity.java

```
package ps.pro14;
import android.app.Activity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.*;
import android.widget.*;
public class Pro14Activity extends Activity implements OnClickListener {
    EditText num;
    Button dial;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        num=(EditText) findViewById(R.id.editTextnum);
        dial=(Button) findViewById(R.id.buttondial);
        dial.setOnClickListener(this);
    }
    @Override
    public void onClick(View v) {
        // TODO Auto-generated method stub
        if(v.getId()==dial.getId())
        {
            Intent myintent=new Intent(Intent.ACTION_DIAL, Uri.parse("tel:"+num.getText()));
            startActivity(myintent);
        }
    }
}
```



Exercise : 11

Create an application to make Insert , update , Delete and retrieve operation on the database.

File Name : pro18Activity.java

```
package ps.dboperation;
import android.app.Activity;
import android.content.*;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.*;
public class DboperationActivity extends Activity {
    SQLiteDatabase db;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        Context obj=getApplicationContext();
        obj.setTheme(android.R.drawable.screen_background_dark);
        db=openOrCreateDatabase("Master", SQLiteDatabase.CREATE_IF_NECESSARY, null);
        db.execSQL("create table if not exists Friends (id integer primary key, name text not null,
age integer not null, phone text not null );");
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        super.onCreateOptionsMenu(menu);
        MenuItem mnu1=menu.add(0, 0, 0, "INSERT");
        mnu1.setIcon(android.R.drawable.ic_input_add);
        MenuItem mnu2=menu.add(0, 1, 1, "UPDATE");
        mnu2.setIcon(R.drawable.update);
        MenuItem mnu3=menu.add(0, 2, 2, "DELETE");
        mnu3.setIcon(R.drawable.delete);
        MenuItem mnu4=menu.add(0, 3, 3, "VIEW");
        mnu4.setIcon(R.drawable.view);
        return true;
    }
    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        super.onOptionsItemSelected(item);
        int id=item.getItemId();
        if(id==0) this.startActivity(new Intent(this,insert.class));
        else if (id==1) this.startActivity(new Intent(this,update.class));
        else if(id==2) this.startActivity(new Intent(this,delete.class));
        else if(id==3) this.startActivity(new Intent(this,view.class));
        return true;
    }
}
```


File Name : Delete.java

```
package ps.dboperation;
import android.app.Activity;
import android.database.*;
import android.os.Bundle;
import android.*;
public class delete extends Activity implements OnClickListener, TextWatcher {
    EditText edname,edage,edphone,edSearch;
    Button btldel,btclear;
    String setname;
    SQLiteDatabase db;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.delete);
        db=openOrCreateDatabase("Master", SQLiteDatabase.CREATE_IF_NECESSARY, null);
        edSearch=(EditText) findViewById(R.id.editTextsearch);
        edname=(EditText) findViewById(R.id.editTextnamedel);
        edage=(EditText) findViewById(R.id.editTextagedel);
        edphone=(EditText) findViewById(R.id.editTextphonedel);
        btldel=(Button) findViewById(R.id.buttondeldel);
        btclear=(Button) findViewById(R.id.buttoncleardel);
        edSearch.setFocusable(true);
        edname.setFocusable(false);
        edname.setEnabled(false);
        edage.setEnabled(false);
        edphone.setEnabled(false);
        btldel.setOnClickListener(this);
        btclear.setOnClickListener(this);
        edSearch.addTextChangedListener(this);
    }
    @Override
    public void onClick(View v) {
        Button action=(Button) v;
        if(action.getText().toString().equals("Delete")) {
            String name=edSearch.getText().toString();
            String q="delete from Friends where name='"+name+"'";
            Toast.makeText(this, q, Toast.LENGTH_SHORT).show();
            db.execSQL(q);
            Toast.makeText(this, "Deleted Success...", Toast.LENGTH_SHORT).show();
        }
        else if(v.getId()==btclear.getId()) {
            clearField();
            Toast.makeText(this, "Field Cleared...", Toast.LENGTH_SHORT).show();
        }
    }
    @Override
    public void afterTextChanged(Editable s) {
```

```

        String name=edSearch.getText().toString();
        Cursor cur=db.rawQuery("select * from Friends where name LIKE '"+name+"%",null);
        if(cur.getCount()>=1)
        {
            cur.moveToNext();
            edname.setText(cur.getString(1)+"");
            edage.setText(cur.getInt(2)+"");
            edphone.setText(cur.getString(3)+"");
        }
        else
        {
            clearField();
        }
    }
    private void clearField()
    {
        edname.setText("");
        edage.setText("");
        edphone.setText("");
    }
}

```

File Name : Insert.java

```

package ps.dboperation;
import android.app.Activity;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.*;
import android.widget.*;
public class insert extends Activity implements OnClickListener
{
    EditText edname,edage,edphone;
    Button btadd,btclear;
    SQLiteDatabase db;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.insert);
        db=openOrCreateDatabase("Master", SQLiteDatabase.CREATE_IF_NECESSARY, null);
        edname=(EditText) findViewById(R.id.editTextname);
        edage=(EditText) findViewById(R.id.editTextageins);
        edphone=(EditText) findViewById(R.id.editTextphoneins);
        btadd=(Button) findViewById(R.id.buttonaddins);
        btclear=(Button) findViewById(R.id.buttonclear);
        btadd.setOnClickListener(this);
        btclear.setOnClickListener(this);
    }
    @Override
    public void onClick(View v) {
        // TODO Auto-generated method stub
        if(v.getId()==btadd.getId())
        {
            String name=edname.getText().toString();
            int age=Integer.parseInt(edage.getText().toString());
            String phone=edphone.getText().toString();

```

```

db.execSQL("insert into Friends(name,age,phone) values '"+name+"','"+age+"','"+phone+"'");
edname.setText("");          edage.setText("");          edphone.setText("");
Toast.makeText(this, "Record Insert Success...", Toast.LENGTH_SHORT).show();
}
else if(v.getId()==btclear.getId()){
edname.setText("");          edage.setText("");          edphone.setText("");
Toast.makeText(this, "Field Cleared...", Toast.LENGTH_SHORT).show();
}      }      }

```

File Name : Update.java

```

package ps.dboperation;
import android.app.Activity;
import android.database.*;
import android.os.Bundle;
import android.text.*;
import android.view.*;
import android.widget.*;
public class update extends Activity implements OnClickListener, TextWatcher {
    EditText edname,edage,edphone,edSearch;
    Button btedit,btclear;
    String setname;
    SQLiteDatabase db;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.update);
        db=openOrCreateDatabase("Master", SQLiteDatabase.CREATE_IF_NECESSARY, null);
        edSearch=(EditText) findViewById(R.id.editTextsearch);
        edname=(EditText) findViewById(R.id.editTextnameupdt);
        edage=(EditText) findViewById(R.id.editTextageupdt);
        edphone=(EditText) findViewById(R.id.editTextphoneupdt);
        btedit=(Button) findViewById(R.id.buttoneditupdt);
        btclear=(Button) findViewById(R.id.buttonclearupdt);
        edname.setEnabled(false);
        edage.setEnabled(false);
        edphone.setEnabled(false);
        btedit.setOnClickListener(this);
        btclear.setOnClickListener(this);
        edSearch.addTextChangedListener(this);
    }
    @Override
    public void onClick(View v) {
        Button action=(Button) v;
        if(action.getText().toString().equals("Edit")) {
            toggleEnable();

            edSearch.setFocusable(false);
            edname.setFocusable(true);

```

```

        setname=edname.getText().toString();
        btedit.setText("Save");
    }
    else if(action.getText().toString().equals("Save"))
    {
        String name=edname.getText().toString();
        int age=Integer.parseInt(edage.getText().toString());
        String phone=edphone.getText().toString();
        db.execSQL("update Friends set name='"+name+"', age='"+age+"', phone='"+phone+"' where
        name='"+setname+"'");
        Toast.makeText(this, "Record Update Success...", Toast.LENGTH_SHORT).show();
    }
}
@Override
public void afterTextChanged(Editable s) {
    String name=edSearch.getText().toString();
    Cursor cur=db.rawQuery("select * from Friends where name LIKE '"+name+"%", null);
    if(cur.getCount()>=1)
    {
        cur.moveToNext();
        edname.setText(cur.getString(1)+"");
        edage.setText(cur.getInt(2)+"");
        edphone.setText(cur.getString(3)+"");
    }
}

```

File Name: view.java

```

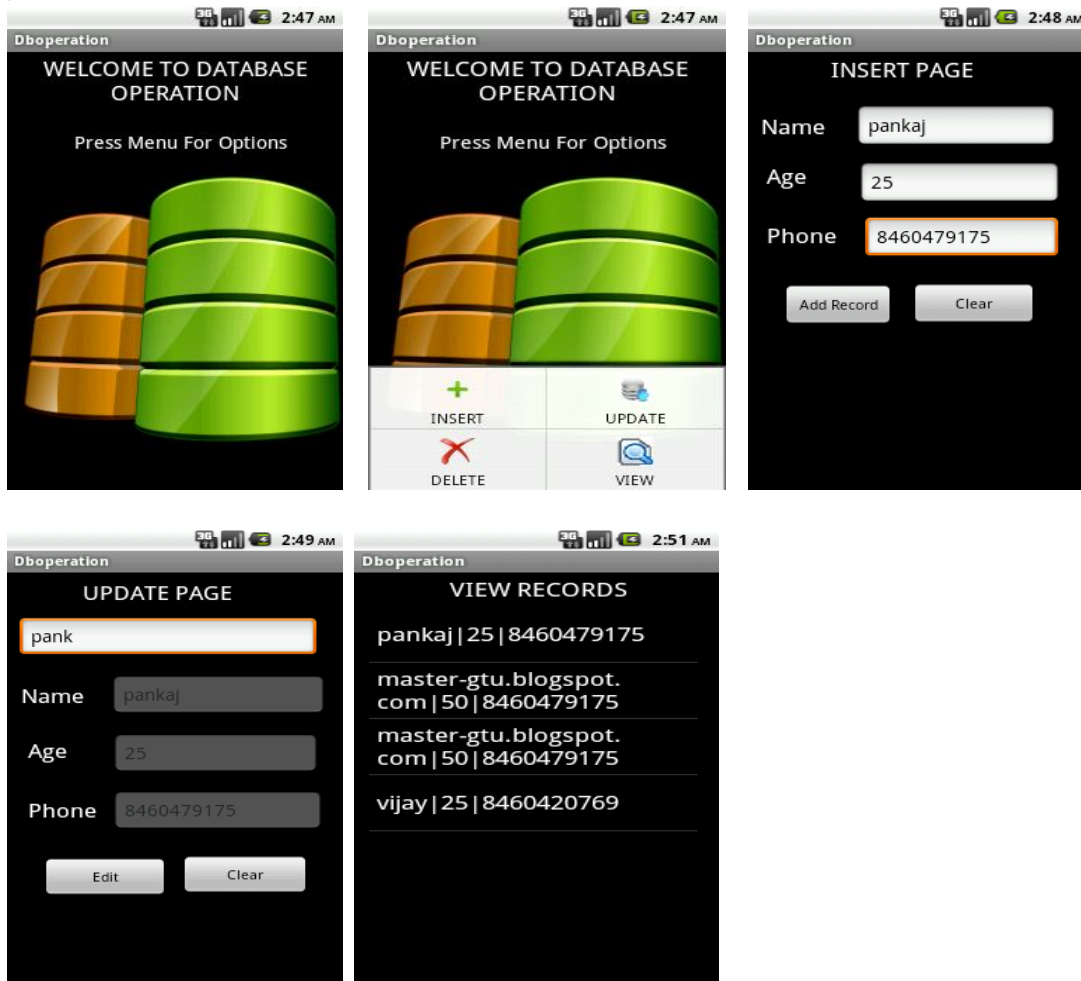
package ps.dboperation;
import android.app.Activity;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.widget.*;
public class view extends Activity
{
    ListView lvrecords;
    SQLiteDatabase db;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.view);
        db=openOrCreateDatabase("Master", SQLiteDatabase.CREATE_IF_NECESSARY, null);
        lvrecords=(ListView) findViewById(R.id.listViewrecords);
        Cursor cur=db.rawQuery("select * from Friends", null);
        String records[];
        int len=cur.getCount();
        Toast.makeText(this,"len : "+len, Toast.LENGTH_SHORT).show();
        records=new String[len];
        cur.moveToFirst();
        for(int i=0;i<len;i++)
        {
            records[i]=cur.getString(1)+"|"+cur.getString(2)+"|"+cur.getString(3);
        }
    }
}

```

```

        cur.moveToNext();
    }
    ArrayAdapter<String> arr=new
ArrayAdapter<String>(this,android.R.layout.simple_list_item_1,records);
    lvrecords.setAdapter(arr);
}
catch(Exception e)
{
    Toast.makeText(this, e.toString(), Toast.LENGTH_SHORT).show();
}
}
}

```



www.master-gtu.blogspot.com

[Great place for programers.]