1. Login :

```
setContentView(R.layout.activity_main);
TextView username =(TextView)findViewById(R.id.username);
TextView password =(TextView)findViewById(R.id.password);
Button button1 =(Button)findViewById(R.id.button1);
button1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        if(username.getText().toString().equals("admin") && password.getText().toString().equals("pass")){
            Toast.makeText(MainActivity.this,"Success",Toast.LENGTH_SHORT).show();
        }else
            Toast.makeText(MainActivity.this,"Failed",Toast.LENGTH_SHORT).show();
    }
});
}}
```

2. Orientation :

```
public class MainActivity extends AppCompatActivity {
    Button button1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button button1 =(Button)findViewById(R.id.button1);
    }
    public void onClick(View v){
        Intent intent = new Intent(MainActivity.this,SecondActivity.class);
            startActivity(intent);
    }
}
```

3. Splash :

```
public class MainActivity extends AppCompatActivity {
private static int SPLASH_TIME_OUT = 5000;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        new Handler().postDelayed(new Runnable() {
            @Override
            public void run() {
                Intent intent = new Intent(MainActivity.this, MainActivity2.class );
                startActivity(intent);
                finish();
            }
        },SPLASH_TIME_OUT);
}}
```

4. Shapes :

```
//creating Bitmap
Bitmap bg =Bitmap.createBitmap(720, 1280, Bitmap.Config.ARGB_8888);
//Setting bitmap as a background for imageview
ImageView i =(ImageView)findViewById(R.id.imageView);
i.setBackgroundDrawable(new BitmapDrawable(bg));
//creating canvas
Canvas canvas = new Canvas(bg);
//creating paint
Paint paint = new Paint();
paint.setColor(Color.RED);
paint.setTextSize(50);
//draw rectangle
canvas.drawText("Rectangle", 420, 150, paint);
canvas.drawRect(400,200,650,700,paint);
//draw circle
canvas.drawText("Circle", 120, 150, paint);
canvas.drawCircle(200,350,150,paint);
//draw square
canvas.drawText("Square", 120, 800, paint);
canvas.drawRect(50,850,350,1150,paint);
//draw line
canvas.drawText("Rectangle", 480, 800, paint);
canvas.drawLine(520,850,520,1150,paint);
```

5. Menu :

```
@Override
  public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.menubar, menu);
    return true;
  }
  @Override
  public boolean onOptionsItemSelected(MenuItem item) {
    Toast.makeText(this, "Selected Item: " +item.getTitle(), Toast.LENGTH_SHORT).show();
    switch (item.getItemId()) {
      case R.id.id1:
        // do your code
        return true;
      case R.id.id2:
        return true;
      case R.id.id3:
         return true;
      default:
        return super.onOptionsItemSelected(item);
    }}}
```

6. GUI :

```java
public class MainActivity extends AppCompatActivity {
    int ch=1;
    float font=30;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        final TextView t =(TextView)findViewById(R.id.textView);
        Button button1 =(Button)findViewById(R.id.button1);
        button1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) { t.setTextSize(font);
                font = font +5;
                if(font==50)
                    font=30;
            }
        });
        Button button2 =(Button)findViewById(R.id.button2);
        button2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                switch (ch) {case 1:
                    t.setTextColor(Color.RED);
                    break; case 2:
                    t.setTextColor(Color.GREEN);
                    break;
            }
            ch++;
                if(ch==7)
                    ch=1; }
        });
    }
}
```

7. Animations :

```java
public void tapToFade(View view) {
    Button button1 = (Button) findViewById(R.id.button1);
    Animation animation = AnimationUtils.loadAnimation(this, R.anim.fade);
    button1.startAnimation(animation);
}
```

Move :
```xml
<translate
    android:fromXDelta="0%p"
    android:fromYDelta="75%p"
    android:duration="800" />
```

Blink :
```xml
<alpha
    android:fromAlpha="0"
    android:toAlpha="1"
    android:interpolator="@android:anim/accelerate_interpolator"
    android:duration="600"
    android:repeatMode="reverse"
    android:repeatCount="infinite" />
```

Fade :
```xml
<alpha
    android:fromAlpha="0"
    android:toAlpha="1"
    android:duration="3000"/>
<alpha
    android:startOffset="3000"
    android:fromAlpha="1"
    android:toAlpha="0"
    android:duration="3000"/>
```

Slide :
```xml
<scale
    android:fromYScale="1"
    android:fromXScale="1"
    android:interpolator="@android:anim/linear_interpolator"
    android:toYScale="0"
    android:toXScale="1" />
```

8. Media

```java
public class MainActivity extends AppCompatActivity {
    MediaPlayer music;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        music = MediaPlayer.create(this, R.raw.sample);
}
//playing the music
public void musicplay(View v)
{
music.start();
}

    public void musicstop(View v)
    {
        music.stop();
        music=MediaPlayer.create(this, R.raw.sample);
    }}
```

9. Radio

```java
RadioButton simpleRadiobutton1,simpleRadiobutton2,simpleRadiobutton3, simpleRadiobutton4;
String selectedSuperstar;
Button submit;

RadioButton simpleRadioButton1 = (RadioButton) findViewById(R.id.java);
    RadioButton simpleRadioButton2 = (RadioButton) findViewById(R.id.android);
    RadioButton simpleRadioButton3 = (RadioButton) findViewById(R.id.webt);
    RadioButton simpleRadioButton4 = (RadioButton) findViewById(R.id.ml);
    submit = (Button) findViewById(R.id.button);
    submit.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View view) {
        if (simpleRadioButton1.isChecked()) {
          selectedSuperstar = simpleRadioButton1.getText().toString();
        } else if (simpleRadioButton2.isChecked()) {
          selectedSuperstar = simpleRadioButton2.getText().toString();
        } else if (simpleRadioButton3.isChecked()) {
          selectedSuperstar = simpleRadioButton3.getText().toString();
        } else if (simpleRadioButton4.isChecked()) {
          selectedSuperstar = simpleRadioButton4.getText().toString();
        }
        Toast.makeText(getApplicationContext(), selectedSuperstar,
            Toast.LENGTH_LONG).show(); // print the value oF selectedSuperStar
      }
    });
  }
}
```