

Decimal Format

```
DecimalFormat currency = new
DecimalFormat("$###,###.##");
current cy.f or mat (to tal Cost));
```

Pass And Get Value Into/From Another Activity

```
Intent i = new Intent(MainActivity.this,
                        Sec ond Act ivi ty.c lass);

i.p utE xtr a("d ata " ,to tal Cost);

sta rtA cti vit y(i);
Intent intent = getIntent();
Double value = itent.g et Dou ble Ext ra( Key,0);
```

Splash Activity

```
public class SplashActivity extends
AppCompatActivity {
    @Ov erride
    pro tected void onCrea te( Bundle savedI -
nst anc eState) {
        sup er.o nC rea te( sav edI nst -
anc eSt ate);
        set Con ten tVi ew( R.l ayo ut.a -
ct ivi ty_ spl ash);
        Tim erTask task = new TimerT ask()
        {
            @Ov erride
            public void run() {
                fin ish();
                sta rtA cti vit -
y(new Intent (Sp las hAc tiv ity.this,
Mai nAc tiv ity.cl ass));
            }
            Timer t = new Timer();
            t.s che dul e(t ask ,4000);
        }
    }
```

Working with Files

```
FileOutputStream fout =
openFi leO utp ut( " Fil e1.t xt " ,MO DE_ APP -
END);
fout.w rit e(d ata.ge tBy tes());
fout.w rit e(" \n".g etB yte s());
fout.c lose();
FileIn put Stream fin = openFi leI npu t("F ile -
1.t xt");
String temp = " ";
int c;
char ch;
while( (c= fin.re ad( ))!= -1){
    ch = (char)c;
    temp += Charac ter.to Str ing (ch);
}
output.se tTe xt( temp);
fin.cl ose();
```

Calling DBHelper

```
//to view student records
/*Cursor c = dbh.vi ewD ata();
String Builder str = new String Bui lder();
if(c.g etC oun t() >0){
    while (c.mov eTo Nex t()){
        str.ap pen d("ID : " +c.get Str ing (0));
        str.ap pen d(" First Name : " +c.get Str ing (1));
        str.ap pen d(" Last Name : " +c.g et Str ing (2));
        str.ap pen d(" Cell number : "+ c.getS tri ng(3));
        str.ap pen d(" prov Id : " + c.getS tri ng(4));
        str.ap pen d(" \n");
    }
    result.se tTe xt( str);
//Create Record
    boolean isAdded= db.add Rec (fn.ge tTe xt( ).t -
oSt rin g() ,ln.ge tTe xt( ).t oSt ring(),
cn.g et Tex t().to Str ing (), pi.g et Tex t().to -
Str ing());
```

Database

```
public class DatabaseHelper extends
SQLiteOpenHelper{
    final static String DATABASE_SE_NAME = " Inf orm -
ati on.d b";
    final static int DATABASE_SE_VERSION = 4;
    public Databa seH elp er( Context context) {
        super( con text, DATABASE_SE_NAME, null, DATABASE -
SE_ VER SION);
    }
    @Override
    public void onCrea te( SQL ite Dat abase db) {
        //creating studen t_table and provin ce_ table
        String query = " Create Table [TABLE NAME] (
        [COLUMN] INTEGER PRIMARY KEY ,COLUMN2
        TEXT,...) ";
        //Only INTEGER, TEXT OR REAL
        try{
            db.exe cSQL(q uery);
        }
        catch (Exception e){
            e.prin tSt ack Tra ce();
        }
    }
    @Override
    public void onUpgr ade (SQ Lite eDa tabase db, int
oldVer sion, int newVer sion) {
        db.exe cSQL("Drop table if exists " + TABLE1 -
_NAME);
        db.exe cSQL("Drop table if exists " + TABLE2 -
_NAME);
        onCrea te(db);
    }
    //Add Record
    SQLite Dat abase db = this.g etW rit abl eDa tab -
ase();
    Conten tValues values = new Conten tVa lues();
    values.pu t("C olu mn", value);
    long r = db.ins ert (TA BLE 1_N AME ,nu ll, val -
ues);
    if(r == -1){
        return false;
    }
    else{
```

Database (cont)

```
> return true;
}
//method to view data
public Cursor viewData(){
    SQLiteDatabase db = this.getWritableDatabase();
    String query = "Select * from " + TABLE1_NAME;
    Cursor c = db.rawQuery(query,null);
    return c;
}
```

Play Media

```
mpG = new MediaPlayer();
mpG = MediaP lay er.c re ate (th is, R.r aw.u ku -
lele);
mpD = new MediaP lay er();
mpD = MediaP lay er.c re ate (th is, R.r aw.d -
rums);
mpG.st art();
mpG.pa uset();
```

Shared Prefs

```

final SharedPreferences sharedPref =
                                Pre fer enc eMa -
nag er.g et Def aul tSh are dPr efe rences
                                -

(this);
button.se tOn Cli ckL ist ene r(new View.O nCl -
ick Lis tener() {
                                @Ov erride
                                public void onClic k(View
v) {
                                intYear = Intege -
r.p ars eIn t(y ear s.g etT ext ().t oS tri ng());
                                decLoan =
Float.p ar seF loa t(l oan.ge tTe xt( ).t oSt rin -
g());
                                dec Int ertest =
Float.p ar seF loa t(i nte res t.g etT ext ().t -
oS tri ng());
                                Sha red Pre fer -
enc es.E ditor editor = shared Pre f.e dit();
                                edi tor.pu tIn -
t("k ey1 " ,in tYear);
                                edi tor.pu tFl -
oat ("ke y2", dec Loan);
                                edi tor.pu tFl -
oat ("ke y3", dec Int ertest);
                                edi tor.co mmit();
                                sta rtA cti vit -
y(new Intent

```



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Shared Prefs (cont)

```
> (MainActivity.this,Payment.class));
    }
    });
//Get the values
SharedPreferences sp = PreferenceManager.
    getDefaultSharedPreferences(this);
int years = sp.getInt("key1",0);
float loan = sp.getFloat("key2",0);
float interest = sp.getFloat("key3",0);
```

Working With Fragments

```
public class FragmentOne extends Fragment {
    @Override
    public View onCreateView (LayoutInflater inflater, ViewGroup container,
        Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        return inflater.inflate(R.layout.fragment_one, container, false);
    }
}

//Main
public void clickOne(View view){
    FragmentManager fm = getSupportFragmentManager();
    FragmentTransaction ft = fm.beginTransaction();
    FragmentOne fl = new FragmentOne();
    ft.add(R.id.relative, fl);
    ft.commit();
}

//Add this to the layout
android:onClick="clickOne"
//Dont forget to change fragment layout to relative
```

