## **Practical Related Questions**

#### 1.List the basic methods used in an android AsyncTaskclass.

- doInBackground(): This method contains the code which needs to be executed in background. ...
- onPreExecute(): This method contains the code which is executed before the background processing starts.

### 2.Differentiate between AsyncTask and Services.

	Service	IntentService	AsyncTask
When to use ?		I Long task <b>usually</b> with no communication to main thread.	- Small task having to communicate with main thread.
		(Update)- If communication is required, can use main thread handler or broadcast intents	multiple instances OR
Trigger	Call to method	- When callbacks are needed (Intent triggered tasks).  i Intent	Call to method execute()
Trigger ed From	Main Thread	Main Thread (Intent is received on main thread and then worker thread is spawed)	Main Thread
(thread Runs On (thread		Separate worker thread	Worker thread. However, Main thread methods may be invoked in between to publish progress.
Limitati ons / Drawba cks	May block main thread	<ul> <li>Cannot run tasks in parallel.</li> <li>Multiple intents are queued on the same worker thread.</li> </ul>	executed once (hence cannot

## 3. Name the method used, if a process takes a long time to do its work?

DoInBackground

#### Exercise

## DBHelper.java

```
package com.example.practical26;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.widget.Toast;
public class DBHelper extends SQLiteOpenHelper {
    SQLiteDatabase db;
    public DBHelper(Context context) {
        super(context, "prac26", null, 1);
        db = getWritableDatabase();
    @Override
    public void onCreate(SQLiteDatabase db) {
        db.execSQL("CREATE TABLE IF NOT EXISTS temp_data(msg TEXT)");
    @Override
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
    public void insert_row(String txt){
        db.execSQL("INSERT INTO temp_data VALUES('"+txt+"')");
```

# Insert.java

```
package com.example.practical26;

import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.widget.Toast;
```

```
public class DBHelper extends SQLiteOpenHelper {
    SQLiteDatabase db;
    public DBHelper(Context context) {
        super(context, "prac26", null, 1);
        db = getWritableDatabase();
    }

    @Override
    public void onCreate(SQLiteDatabase db) {
        db.execSQL("CREATE TABLE IF NOT EXISTS temp_data(msg TEXT)");
    }

    @Override
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
     }
    public void insert_row(String txt){
        db.execSQL("INSERT INTO temp_data VALUES('"+txt+"')");
    }
}
```

## MainAcitivity.java

```
import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends Activity {
    EditText data;
    Button btn;
```

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    btn=(Button) findViewById(R.id.btn);
    data=(EditText) findViewById(R.id.data);
    DBHelper db = new DBHelper(MainActivity.this);

    btn.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            String txt= String.valueOf(data.getText());
            Insert insert=new Insert(db,txt);
            Toast.makeText(MainActivity.this, "data_inserted", Toast.LENGTH_S
HORT).show();
    }
}
});
}
```

## Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"
    android:padding="50dp"
    tools:context=".MainActivity"
    android:orientation="vertical"
    >

    <EditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="50dp"
        android:width="300dp" />
```