There five ways to store persistent data.

1. Shared Preference:

This stores your private data in key-value pairs.

e.g int sPref = 52;

final SharedPreferences sharedPref = PreferenceManager.getDefaultSharedPreferences(this);

SharedPreferences.Editor. editor = sharedPref.edit();

editor.putInt(“Key1”, sPref);

editor.commit();

1. Internal Storage:

This stores your private data in the memory of the device.

e.g String filename = “a”;

File directory = getDir(filename, MODE\_PRIVATE);

File[] files = directory.listfiles();

FileOutputStream fos = openFileOutput(filename, Context.MODE\_PRIVATE);

fos.write(internalStorageBinding.saveFileEditText.getText().toString().getBytes());

fos.close();

1. External Storage:

This stores data that can be available to other applications on an external device.

e.g private String getDirectoryType() {

return Environment.DIRECTORY\_DOCUMENTS;

}

private File getTargetFolder() {

return Environment.getExternalStoragePublicDirectory(getDirectoryType());

}

File targetFolder = getTargetFolder();

targetFolder.mkdirs();

1. SQLite Database:

This stores structured data in a private database.

e.g public class SampleSQLiteDBHelper extends SQLiteOpenHelper {

private static final int DATABASE\_VERSION = 2;

public static final String DATABASE\_NAME = "sample\_database";

public static final String PERSON\_TABLE\_NAME = "person";

public static final String PERSON\_COLUMN\_ID = "\_id";

public static final String PERSON\_COLUMN\_NAME = "name";

public static final String PERSON\_COLUMN\_AGE = "age";

public static final String PERSON\_COLUMN\_GENDER = "gender";

public SampleSQLiteDBHelper(Context context) {

super(context, DATABASE\_NAME, null, DATABASE\_VERSION);

}

@Override

public void onCreate(SQLiteDatabase sqLiteDatabase) {

sqLiteDatabase.execSQL("CREATE TABLE " + PERSON\_TABLE\_NAME + " (" +

PERSON\_COLUMN\_ID + " INTEGER PRIMARY KEY AUTOINCREMENT, " +

PERSON\_COLUMN\_NAME + " TEXT, " +

PERSON\_COLUMN\_AGE + " INT UNSIGNED, " +

PERSON\_COLUMN\_GENDER + " TEXT" + ")");

}

@Override

public void onUpgrade(SQLiteDatabase sqLiteDatabase, int i, int i1) {

sqLiteDatabase.execSQL("DROP TABLE IF EXISTS " + PERSON\_TABLE\_NAME);

onCreate(sqLiteDatabase);

}

}

//To add data

private void saveToDB() {

SQLiteDatabase database = new SampleSQLiteDBHelper(this).getWritableDatabase();

ContentValues values = new ContentValues();

values.put(SampleSQLiteDBHelper.PERSON\_COLUMN\_NAME, activityBinding.nameEditText.getText().toString());

values.put(SampleSQLiteDBHelper.PERSON\_COLUMN\_AGE, activityBinding.ageEditText.getText().toString());

values.put(SampleSQLiteDBHelper.PERSON\_COLUMN\_GENDER, activityBinding.genderEditText.getText().toString());

long newRowId = database.insert(SampleSQLiteDBHelper.PERSON\_TABLE\_NAME, null, values);

Toast.makeText(this, "The new Row Id is " + newRowId, Toast.LENGTH\_LONG).show();

}

1. Network connection:

This stores data on a web server.

e.g use classes in Java.net.\* and Android.net.\*