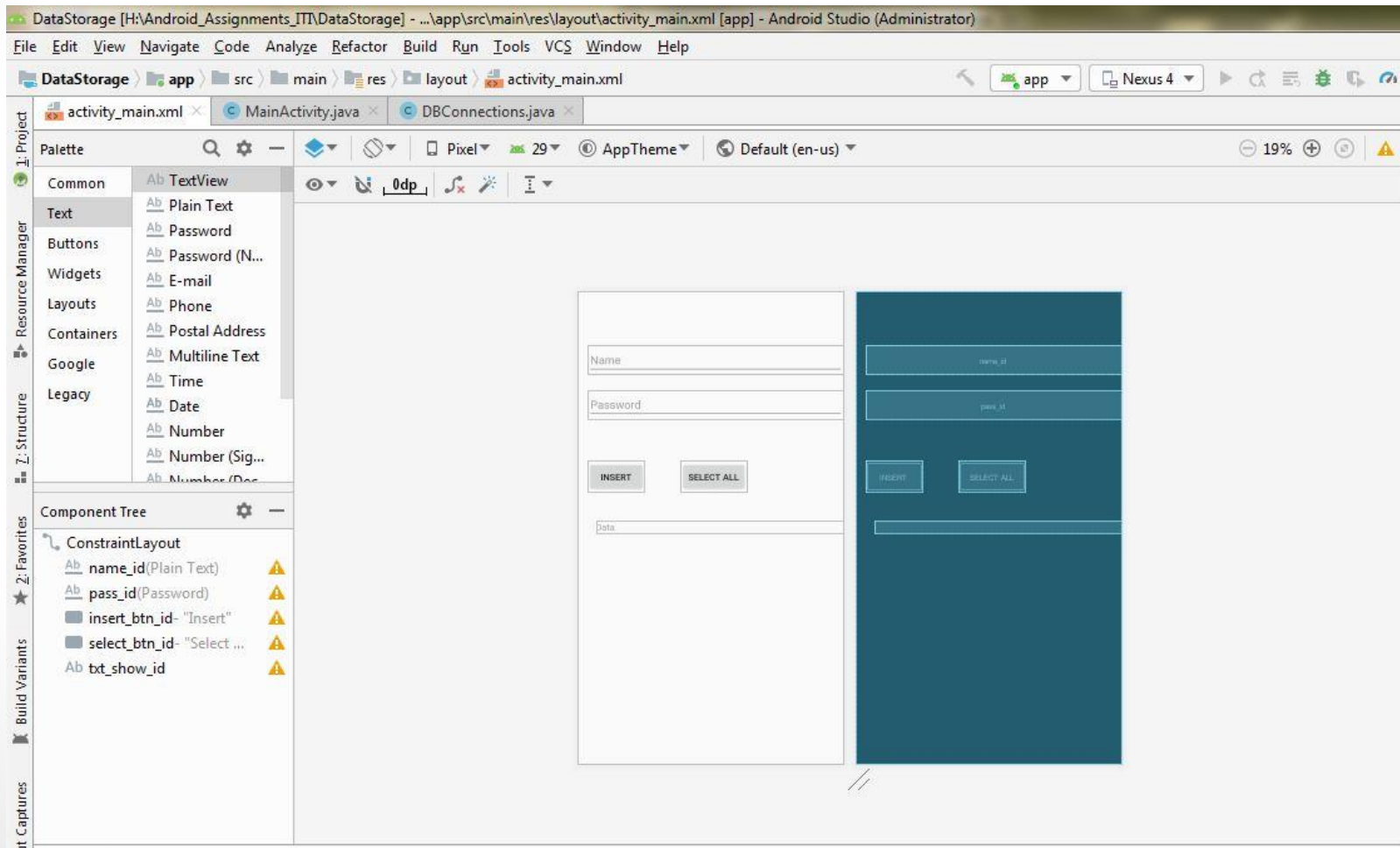


# Android

Sec:5&6

Eng:Rasha Sleem

# activity\_main.xml



<div><div>id</div><div>Name</div><div>Password</div><div><div>INSERT</div><div>SELECT ALL</div><div>UPDATE</div><div>DELETE</div></div><div>Data</div></div> <div><div><div>id_id</div><div>name_id</div><div>pass_id</div><div><div>INSERT</div><div>SELECT ALL</div><div>UPDATE</div><div>DELETE</div></div><div></div></div></div>
---

<EditText

```
    android:id="@+id/name_id"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Name"
    android:inputType="textPersonName"
    android:layout_marginStart="16dp"
    android:layout_marginLeft="16dp"
    android:layout_marginTop="84dp"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

<EditText

```
    android:id="@+id/pass_id"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Password"
    android:inputType="textPassword"
    android:layout_marginStart="16dp"
    android:layout_marginLeft="16dp"
    android:layout_marginTop="24dp"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/name_id" />
```

<EditText

```
    android:id="@+id/id_id"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_marginTop="36dp"  
    android:layout_marginLeft="16dp"  
    android:hint="id"  
    android:inputType="number"  
    app:layout_constraintEnd_toEndOf="parent"  
    app:layout_constraintHorizontal_bias="0.0"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintTop_toTopOf="parent" />
```



33 <Button

34 android:id="@+id/insert\_btn\_id"

35 android:layout\_width="wrap\_content"

36 android:layout\_height="wrap\_content"

37 android:text="Insert"

38 android:onClick="insertBtn"

39 android:layout\_marginStart="16dp"

40 android:layout\_marginLeft="16dp"

41 android:layout\_marginTop="65dp"

42 app:layout\_constraintStart\_toStartOf="parent"

43 app:layout\_constraintTop\_toBottomOf="@+id/pass\_id" />

44  
45 <Button

46 android:id="@+id/select\_btn\_id"

47 android:layout\_width="wrap\_content"

48 android:layout\_height="wrap\_content"

49 android:text="Select All"

50 android:onClick="selectAllBtn"

51 android:layout\_marginStart="56dp"

52 android:layout\_marginLeft="56dp"

53 android:layout\_marginTop="65dp"

54 app:layout\_constraintStart\_toEndOf="@+id/insert\_btn\_id"

55 app:layout\_constraintTop\_toBottomOf="@+id/pass\_id" />

<Button

```
    android:id="@+id/update_btn_id"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="16dp"
    android:layout_marginLeft="16dp"
    android:layout_marginTop="24dp"
    android:onClick="updateBtn"
    android:text="Update"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/insert_btn_id" />
```

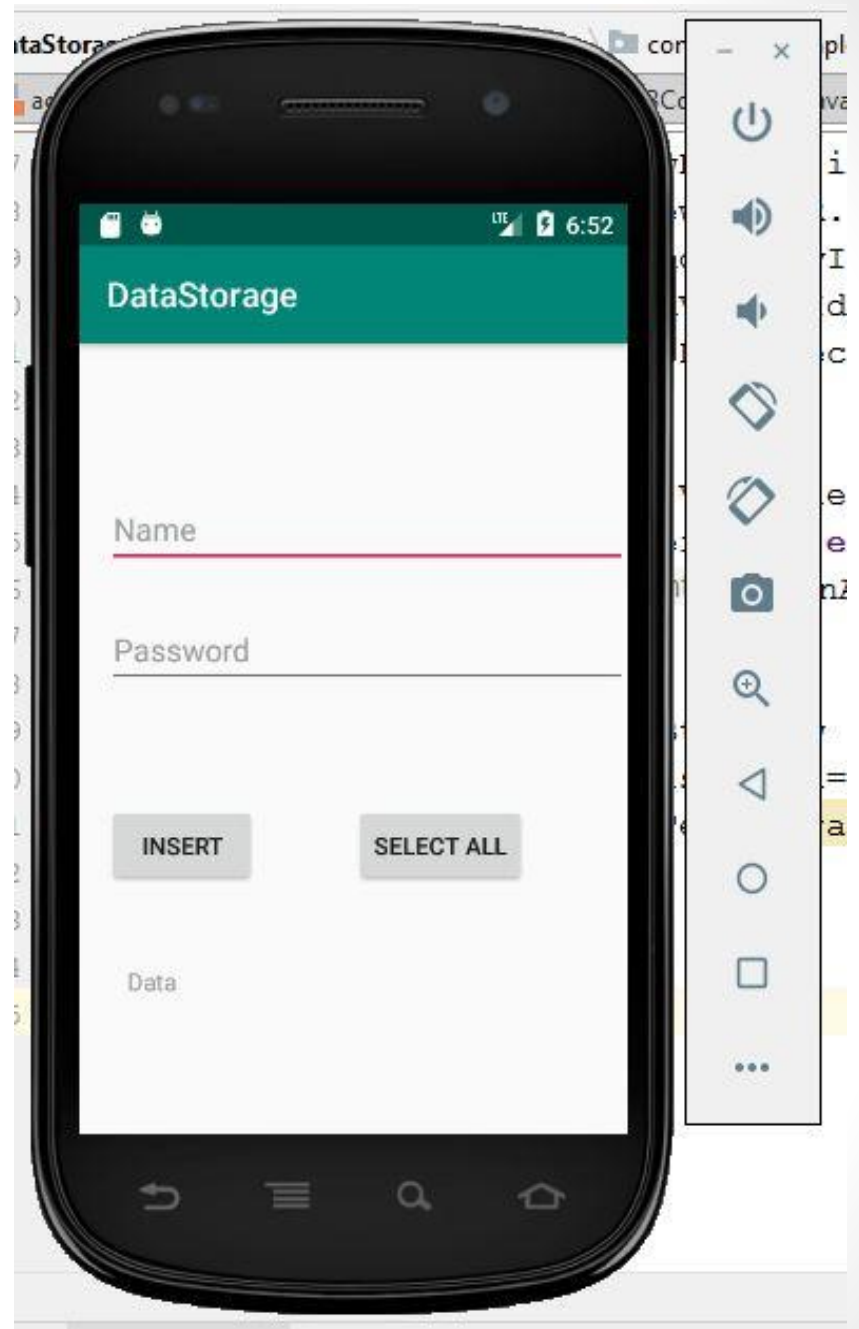
<Button

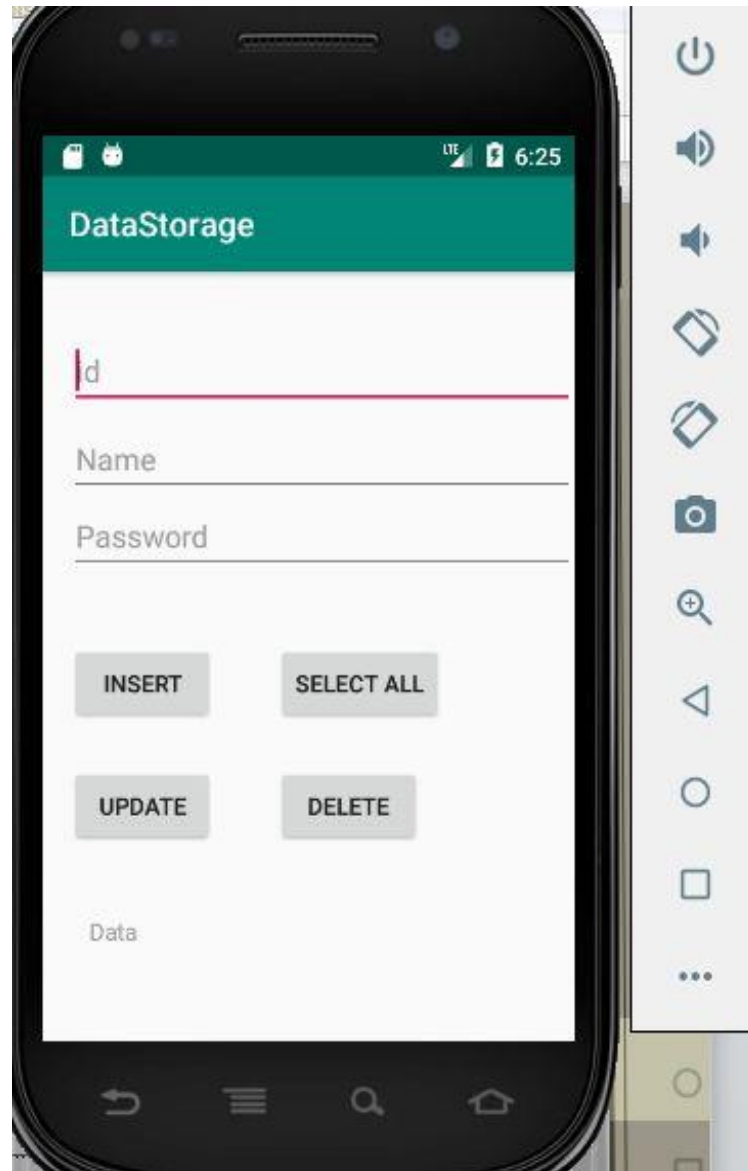
```
    android:id="@+id/delete_btn_id"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="36dp"
    android:layout_marginLeft="36dp"
    android:layout_marginTop="24dp"
    android:onClick="deleteBtn"
    android:text="Delete"
    app:layout_constraintStart_toEndOf="@+id/update_btn_id"
    app:layout_constraintTop_toBottomOf="@+id/select_btn_id" />
```

<TextView

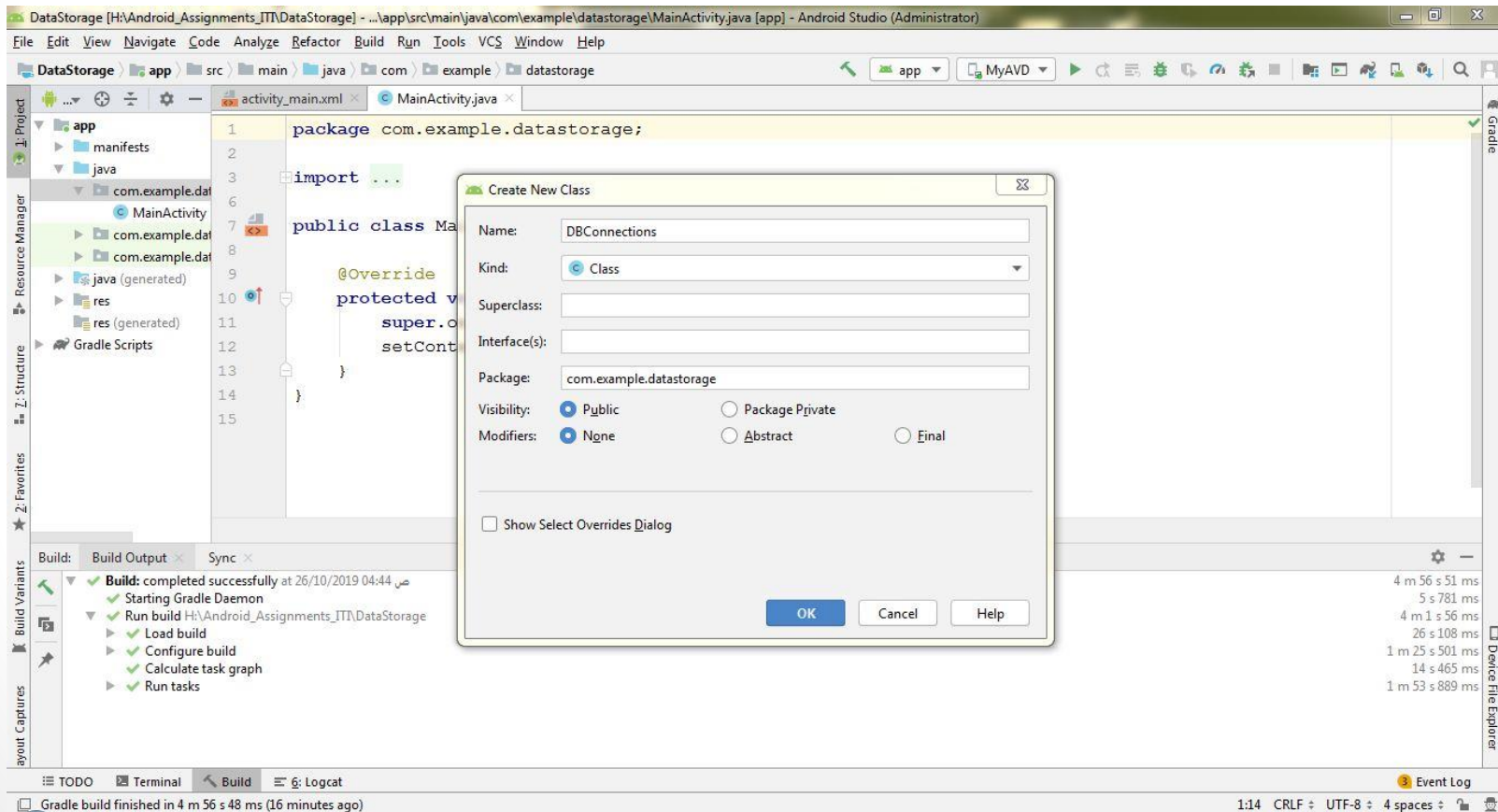
```
    android:id="@+id/txt_show_id"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_marginStart="28dp"  
    android:layout_marginLeft="28dp"  
    android:layout_marginTop="44dp"  
    android:hint="Data"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintTop_toBottomOf="@+id/insert_btn_id" />
```







App → java → com.example...(package name) → right click → new class



# DBConnections.java

- **public class** DBConnections **extends** SQLiteOpenHelper {
- **public static final** String *DBName*="myDataBase";
- **public static final** int *version*=1;
- **public** DBConnections(Context context){  
    **super**(context,*DBName*,null,*version*);  
  
}

- @Override

```
public void onCreate(SQLiteDatabase db) {
```

```
    db.execSQL("create table IF NOT EXISTS myTable (id  
                INTEGER primary key,name TEXT,pass TEXT)");  
}
```

- @Override

```
public void onUpgrade(SQLiteDatabase db, int oldVersion, int  
newversion) {
```

```
    db.execSQL("drop table if EXISTS myTable "); onCreate(db);  
}
```



- **public void** insertToDB(String name,String pass){
- SQLiteDatabase db=**this**.getWritableDatabase();
- ContentValues contentValues=**new** ContentValues();
- contentValues.put("**name**",name);
- contentValues.put("**pass**",pass);
- db.insert("**myTable**",**null**,contentValues);
- }
- **public** ArrayList getData(){
- ArrayList dataArray=**new** ArrayList();
- SQLiteDatabase db=**this**.getReadableDatabase();
- Cursor cursor=db.rawQuery("**select \* from myTable**",**null**);
- cursor.moveToFirst();
- **while**(cursor.moveToNext()){
- dataArray.add(cursor.getString(0)+cursor.getString(1)+cursor.getString(2));
- }
- **return** dataArray;
- }}

- **public void DeleteRaw(String id){**  
    SQLiteDatabase db=**this**.getWritableDatabase();  
    db.execSQL(**"delete from myTable where id="+id**);  
  
• *// db.delete("myTable","id=?",new String[]{ id});*  
    }  
  
• **public void updateRaw(String new\_name,String id){**  
    SQLiteDatabase db=**this**.getWritableDatabase();  
    db.execSQL(**"update myTable set**  
**name='"+new\_name+"where id="+id**);  
  
• */\* ContentValues c\_value=new ContentValues();*  
    *c\_value.put("name",new\_name);*  
    *db.update("myTable",c\_value,"id=?",new String[]{id});*  
    *\*/*  
    }  
  
}

# MainActivity.java

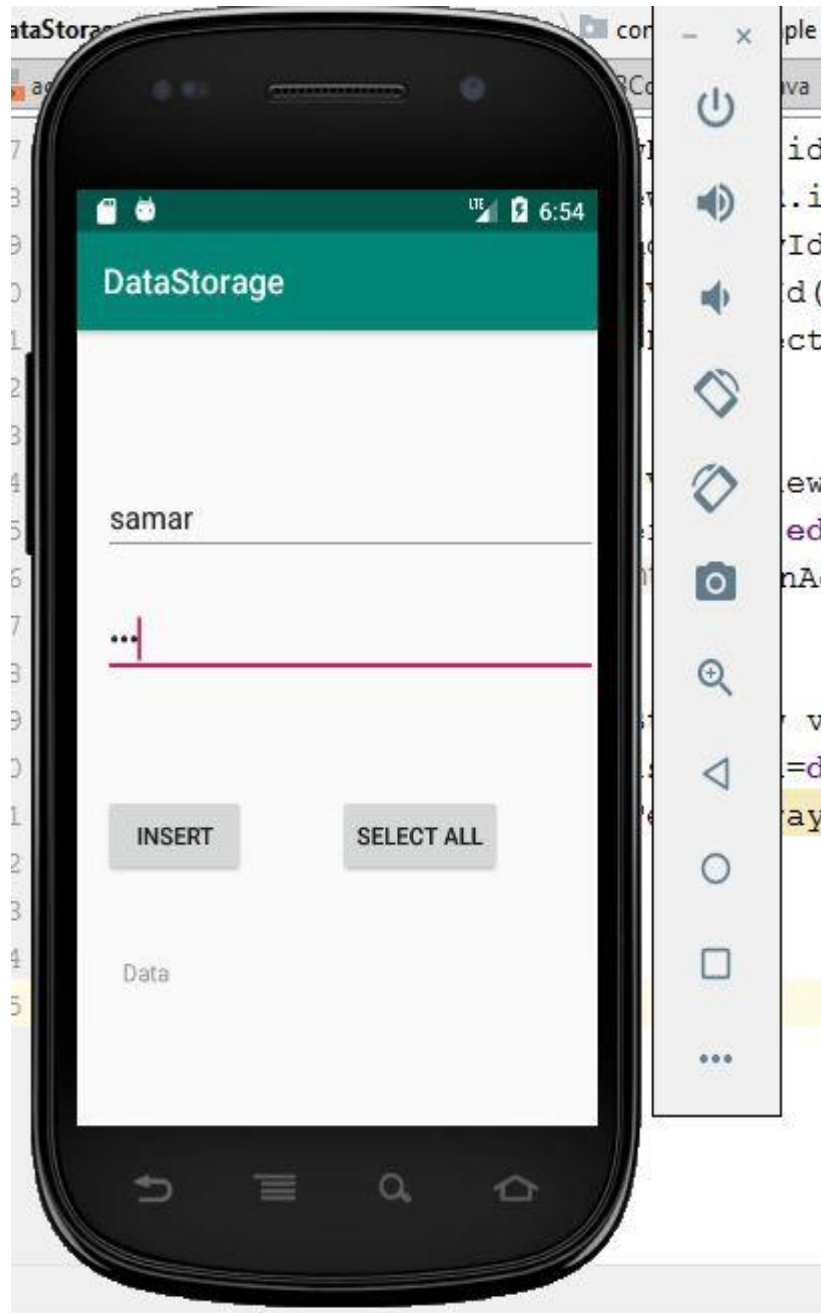
- **public class MainActivity extends AppCompatActivity {**
- EditText **edit\_name,edit\_pass,edit\_id;**
- Button **btn\_insert,btn\_select\_all;**
- TextView **txt\_show\_data;**
- DBConnections **dbConnections;**
- @Override
- **protected void onCreate(Bundle savedInstanceState) {**
- **super.onCreate(savedInstanceState);**  
              **setContentView(R.layout.activity\_main);**
- **edit\_name=**findViewById(R.id.*name\_id*);  
              **edit\_pass=**findViewById(R.id.*pass\_id*);  
              **edit\_id=**findViewById(R.id.*id\_id*);  
  
              **btn\_insert=**findViewById(R.id.*insert\_btn\_id*);  
              **btn\_select\_all=**findViewById(R.id.*select\_btn\_id*);  
              **txt\_show\_data=**findViewById(R.id.*txt\_show\_id*);
- **dbConnections=new DBConnections(this);**
- **}**

- **public void** insertBtn(View view) {
- **dbConnections.insertToDB(edit\_name.getText().toString(),**
- **edit\_pass.getText().toString());**
- **Toast.makeText(MainActivity.this,"ok",Toast.LENGTH\_SHORT).show**  
**();**  
    **}**
- **public void** selectAllBtn(View view) {
- **ArrayList array\_List\_data=dbConnections.getData();**
- **txt\_show\_data.setText(array\_List\_data.toString()+"\n");**
- **}**
- **}**

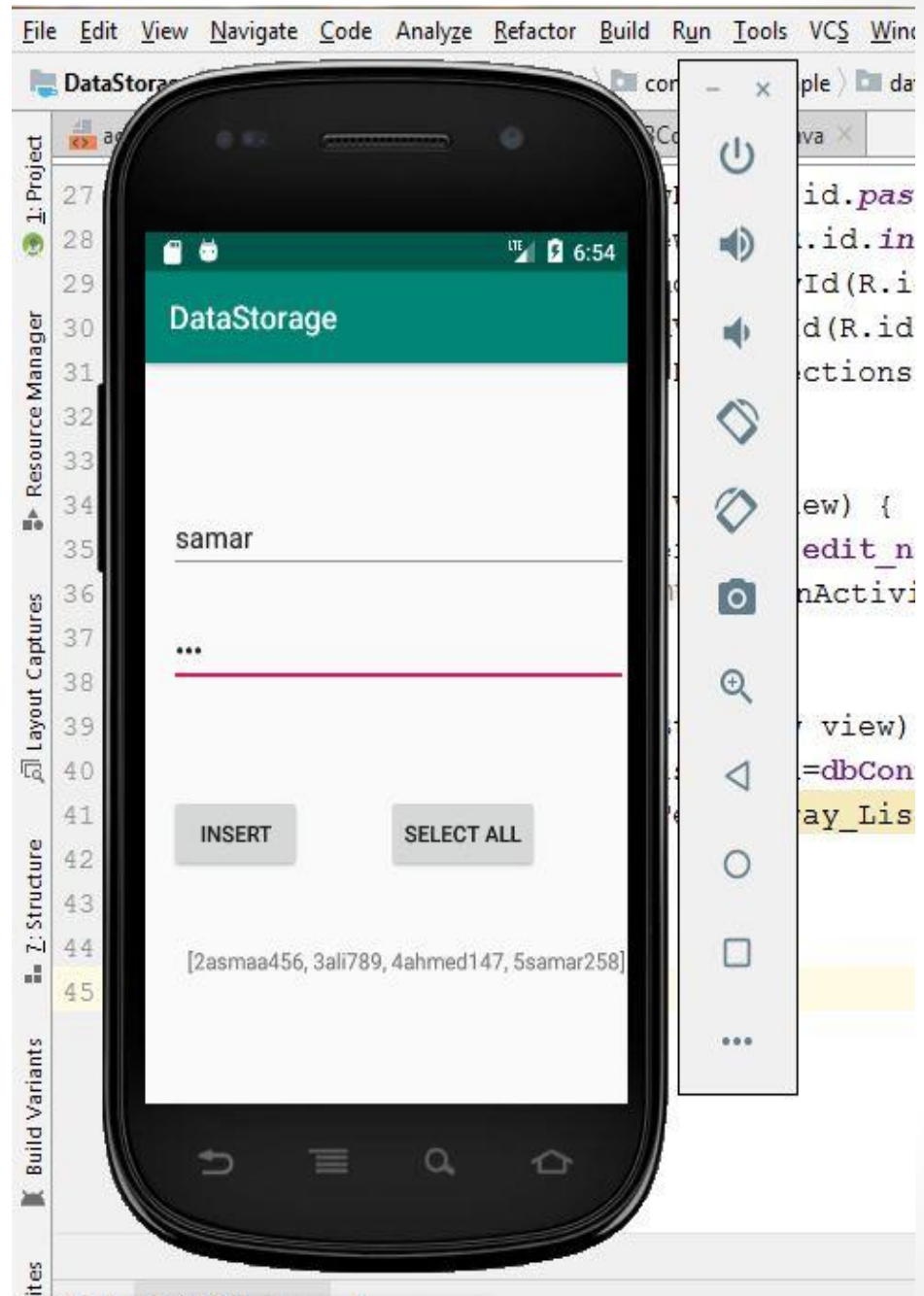
- **public void** updateBtn(View view) {  
  
    **dbConnections.updateRaw(edit\_name.getText().toString(),edit\_id.getText().toString());**  
  
    ArrayList array\_List\_data=**dbConnections.getData();**  
    **txt\_show\_data.setText(array\_List\_data.toString()+"\n");**  
  
}
- **public void** deleteBtn(View view) {  
    **dbConnections.DeleteRaw(edit\_id.getText().toString());**  
  
    ArrayList array\_List\_data=**dbConnections.getData();**  
    **txt\_show\_data.setText(array\_List\_data.toString()+"\n");**  
  
}

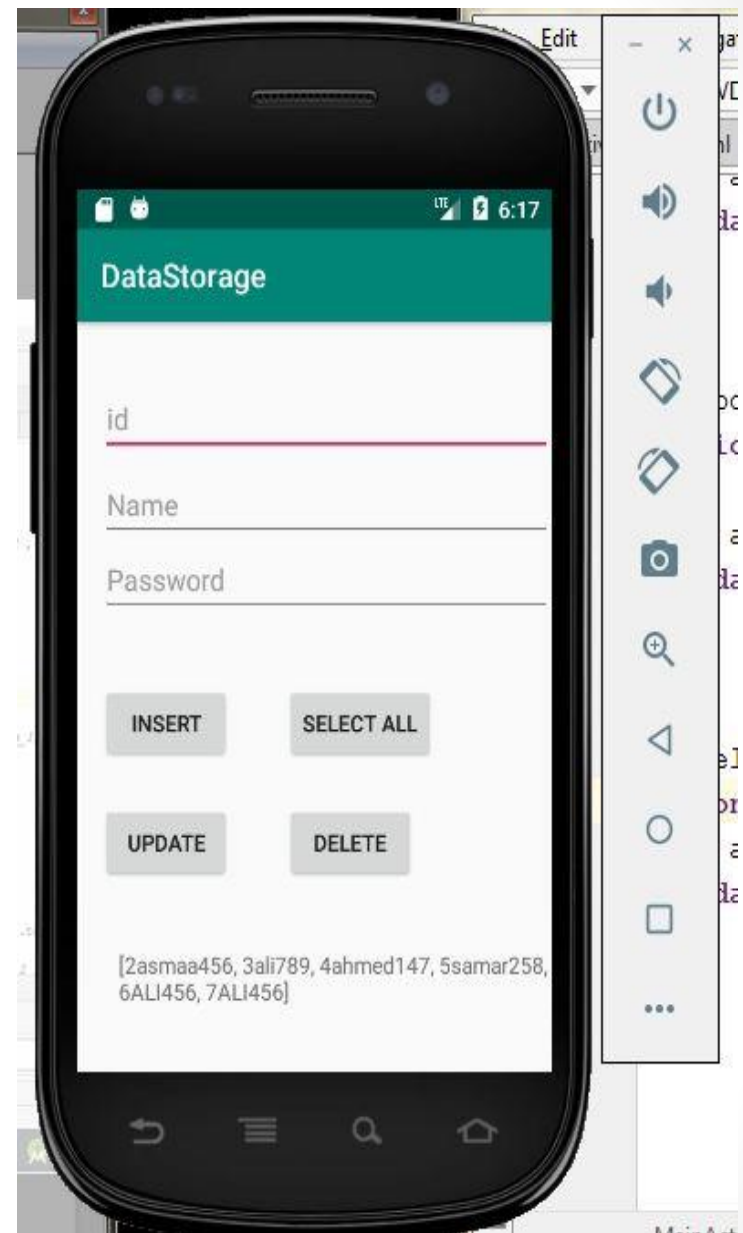


# Insert

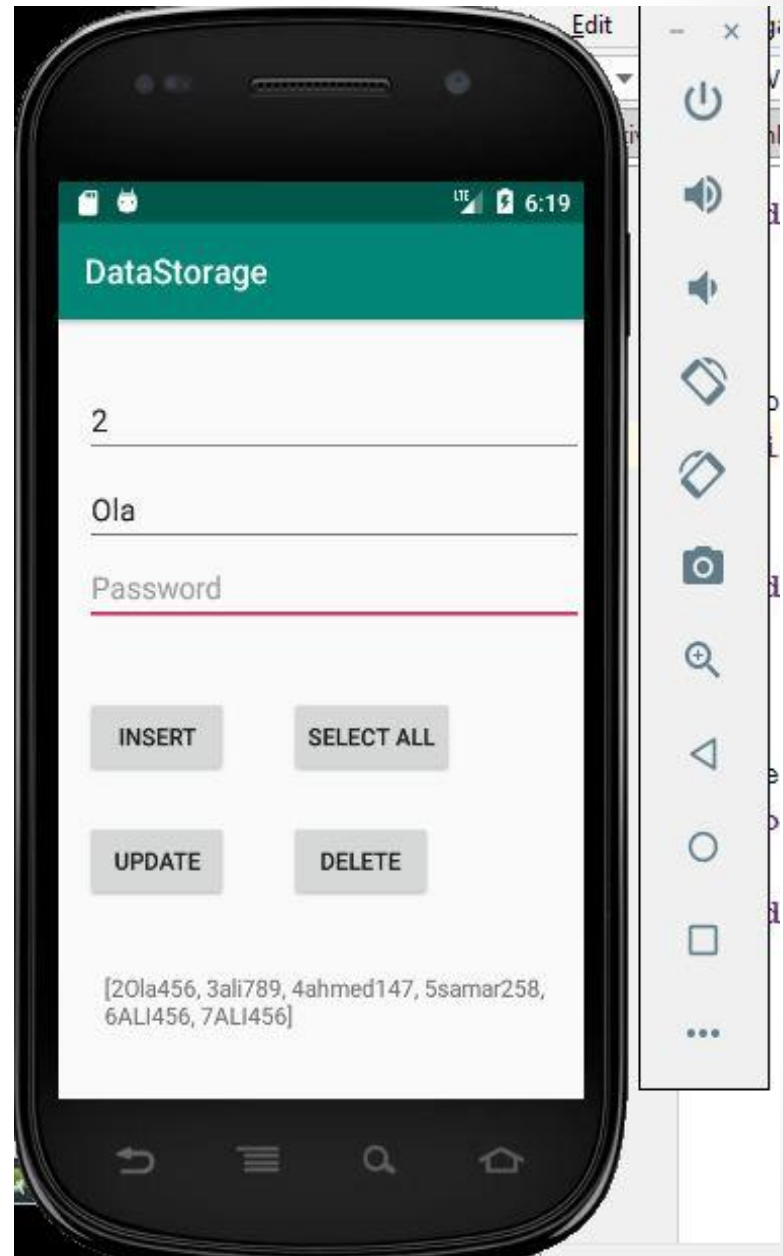


# Select





# update



# Delete

