Week 5

5.1 Learn the basic of sharedpreference from Youtube [video](https://www.youtube.com/watch?v=gLHUCf8sL1M&t=15s)

5.2 Create a highscore app (Try yourself)

5.2.1 One EditText

5.2.2 One Button

5.2.3 Input a new score in EditText and then click a button, Toast will

show a new score as “high score = xxxx” if it is higher than the current score in the sharedpreference. Otherwise, Toast will show “No new score”.

**เฉลย 6.1**

**public class** MainActivity **extends** AppCompatActivity {

Button **btn**;

EditText **edt**;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

**btn** = (Button)findViewById(R.id.button);

**edt** = (EditText)findViewById(R.id.editText);

**final** Context context = getApplicationContext();

**final** SharedPreferences sh = getSharedPreferences(**"myShared"**, context.***MODE\_PRIVATE***);

**final** SharedPreferences.Editor editor = sh.edit();

editor.putInt(**"highScore"**,0);

editor.commit();

**btn**.setOnClickListener(**new** View.OnClickListener() {

@Override

**public void** onClick(View v) {

**int** inputScore = Integer.*parseInt*(**edt**.getText().toString());

**int** currentScore = sh.getInt(**"highScore"**,-1);

**if**(inputScore > currentScore){

Toast t = Toast.*makeText*(context,**"High score = "**+inputScore,Toast.***LENGTH\_LONG***);

t.show();

editor.putInt(**"highScore"**,inputScore);

editor.commit();

}

**else**

{

Toast t = Toast.*makeText*(context,**"No new score"**,Toast.***LENGTH\_LONG***);

t.show();

}

}

});

}

}

Week 6

6.1 Implement Write/Read files to internal storage. Follow step by step at <https://goo.gl/Sgshud> and Youtube [video](https://www.youtube.com/watch?v=50-_rgyu-W4)

6.2 Create a diary app (1 Activity)

6.2.1 One EditText (Input file name)

6.2.2 One Multiple-line EditText (Input your daily note)

6.2.3 One Button (Save file to internal storage)

6.2.4 Toast shows list of all file names

* Hint: File files = getFilesDir();

**เฉลย 6.2**

**public class** MainActivity **extends** AppCompatActivity {

EditText **fileNameEdt**;

EditText **dataEdt**;

Button **saveBtn**;

String **fileName** = **""**;

String **dataToSave** = **""**;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main***);

**fileNameEdt** = (EditText)findViewById(R.id.***editText***);

**dataEdt** = (EditText)findViewById(R.id.***editText2***);

**saveBtn** = (Button)findViewById(R.id.***button***);

**saveBtn**.setOnClickListener(**new** View.OnClickListener() {

@Override

**public void** onClick(View view) {

Context context = getApplicationContext();

**fileName** = **fileNameEdt**.getText().toString();

**dataToSave** = **dataEdt**.getText().toString();

**try** {

*//Save file*

FileOutputStream os = openFileOutput(**fileName**, context.***MODE\_PRIVATE***);

os.write(**dataToSave**.getBytes());

os.close();

*//Get name of saving files*

File dir = getFilesDir();

File[] fileArr = dir.listFiles();

StringBuilder strb = **new** StringBuilder();

**for**(**int** i=0; i<fileArr.**length**; i++)

{

String fileName = fileArr[i].getName();

strb.append(fileName);

strb.append(**" , "**);

}

String listFiles = strb.toString();

Toast t = Toast.*makeText*(context,listFiles,Toast.***LENGTH\_LONG***);

t.show();

}

**catch**(IOException e){

e.printStackTrace();

}

}

});

}

}

6.3 Implement Write/Read files to external storage

Note.

For access saving files in emulator

1. Open Terminal
   1. Finder > Applications > Utilities > Terminal
   2. Type “cd /Users/admin/Library/Android/sdk/platform-tools”
   3. Type “./adb pull /data/data/[your app name]/files/[your file name]”