Functions

1. Encapsulate Conditionals in Functions

Bad practice:

Good practice:

```
buttonSave.setOnClickListener {    it: View!
    if (validate())
        saveItem()

else

    Toast.makeText(
        context,
        "Please enter all the required fields",
        Toast.LENGTH_SHORT
    ).show()
}
```

```
fun validate(): Boolean{
    if(itemName.text.isEmpty())
        return false
    else if(radiobuttonCategory.checkedRadioButtonId == -1)
            return false
    else if((checkboxRegular.isChecked && textviewRegularPrice.text.isEmpty())
            return false
    return true
}
```

2. Do not Repeat

Bad practice:

Repeating the same code in more than one place.

Good Practice:

```
if (orders.isNotEmpty()) {
    setOrdersHistoryScreen()]
    recyclerView.adapter = OrdersAdapter(orders, USER, requireContext())
} else {
    setEmptyOrdersScreen()
}

val orders = databaseHelper.filterOrdersByDate(selectedDate)

setOrdersHistoryScreen()
    recyclerView.adapter = OrdersAdapter(orders, ADMIN, requireContext())

private fun setOrdersHistoryScreen() {
    with(binding) { this:FragmentOrdersBinding ordersHistoryView.visibility = View.VISIBLE noOrdersView.visibility = View.GONE
    }
}
```

3. A Function should have only one responsibility. Bad practice:

displayUser function should be responsible only for displaying the user but here it is getting user from DB and Displaying.

Good Practice:

```
public Users getCurrentUser(int userId) {
    Users currentUser=null;
    for (Users u:LibraryDb.getUsers()) {
        if(userId==u.getUserId())
            currentUser=u;
    }
    return currentUser;
}

public void displayUser(int userId) {
    Users user = getCurrentUser(userId);
    System.out.println("User Id: " + user.getUserId() + ", User Name: " + user.getName() + }
}
```

4. Do not use Flag Arguments

Bad Practice:

```
private void setArgumentValues(Bundle args)
isTaskEdit = args.getInt(KEY_TASK_TYPE,TASK_ADD_EVENT) == TASK_EDIT_EVENT;
if(isTaskEdit)
  editZuId = args.getString(CalendarUtil.KEY EVENT HOST ZUID);
  mEventTitleString = args.getString("title");//No I18N
  mlsAllDayEvent = args.getBoolean("isAll");//No I18N
  mStartTimeMillis = args.getLong(CalendarUtil.KEY START TIME MILLIS);
  mEndTimeMillis = args.getLong(CalendarUtil.KEY END TIME MILLIS);
  mLocationString = args.getString("location");//NO I18N
  mDescriptionString = args.getString("desc");//No I18N
  mAType = args.getInt("aType",-1);//NO I18N
  mRType = args.getInt("rType",-1);//NO I18N
  mAlarmTimeString = args.getString("alarmTime");//NO I18N
  mRepeatString = args.getString("repeat");//NO I18N
  mOriginalAttendeesString = args.getString("attendees"); //No I18N
  mEventKey = args.getString("eKey");//NO I18N
  mEventId = args.getString(ZMailConstants.KEY_EVENT_ID);
  mCurrentCalendarId = args.getString("calld");
  mCurrentCalendarName = args.getString("calName");//No I18N
}
else
  mStartTimeMillis = args.getLong(CalendarUtil.KEY_SELECTED_DATE_MILLIS);
```

```
mEventTitleString = "";
   mLocationString = mAlarmTimeString = mRepeatString = mOriginalAttendeesString = "";
   mlsAllDayEvent = false;
   mEventKey = mEventId = "";
   Calendar calendar = Calendar.getInstance();
   calendar.setTimeInMillis(mStartTimeMillis);
   calendar.add(Calendar.HOUR_OF_DAY,1);
   calendar.set(Calendar.MINUTE,0);
   calendar.set(Calendar.SECOND,0);
   mStartTimeMillis = calendar.getTimeInMillis();
   calendar.add(Calendar.HOUR OF DAY,1);
   mEndTimeMillis = calendar.getTimeInMillis();
}
}
Good Practice:
Create two functions setValuesForEditTask() and setValuesForAddTask().
isTaskEdit = args.getInt(KEY_TASK_TYPE,TASK_ADD_EVENT) == TASK_EDIT_EVENT;
if(isTaskEdit)
   setValuesForEditTask()
 else
   setValuesForAddTask()
```