Answer to some exercises.

Ex1.

```
‘original codes for View.Find
‘this must be run from a View.windows
‘and one theme is visible and active

theView = av.GetActiveDoc
key = MsgBox.Input(“Search for”, “find Text in Attributes”,
theView.GetFindString)
if (key <> nil) then
                av.UseWaitCursor
        if (theView.Find (key). Not) then
            MsgBox.Warning (“No more matches found. “,”find”)
        end
end
‘ codes modified from View.ZoomTool
curScale = theView.ReturnScale
av.Getproject.SetModified (true)
d=theView.GetDisplay
NewScale=CurScale/1.5
‘msgbox.info (“cur: “+curscale.assyring+” new: “ +newscale.asstring, “Scales”)
d.ZoomToScale (NewScale)
```

Ex2.

‘This script will display a dialog list of the tambon for user to select one

```
‘once a tambon has been selected,another dialog list displays all the the school in that tambon
‘user must have loaded tambon.shp and school.shp into the view, namely, View1
‘and adds t_name.dbf into Tables
‘also, the script assumes that users already join t_name to
‘attribute tables of tambon.shp and school.shp
‘(using common field tambon id)

theView=av.FindDoc (“View1”)

theVTab_tambon=av.FindDoc(“attribute of tambon.shp”).GetVTab
tnameField=theVTab_tambon.FindField(“tambon_e”)
tList={}

‘the next loop scans through the attribute table of tambon.shp
‘and adds tambon names to the list tList
for each r in theVTab_tambon
        tname=theVTab_tambon.ReturnValue(tnameField,r)
        tList.Add(tname)
        ‘msgbox.into(tname,”Tambon name”)
end
‘use tList to display a dialog list for choice

theTambon=MsgBox.ChoiceAsString(tList, “Select a tambon”,”Tambon”)
if (theTambon=NIL) then
```

```
        return NIL
end
*** next we consider the attribute table of school.shp***
theVtab_school=av.FindDoc("attibutes of school.shp").GetVTab
tnameField=theVTab_school.FindField("tambon_e")
snameField=theVTab_school.Field("sch_name_e")

tList= {}
'the next loop scans through the attribute table of school of school.shp
'compare wether tambon name is matched
'and adds school names to the list tList

for each r in theVTab_school
        tname=theVTab_school.ReturnValue(tnameField,r)
        if (tname=theTambon) then
                sname=theVTab_school.ReturnValue(snameField,r)
                tList.Add(sname)
        end
end
'use tList to display a dialog list for choice
theSchool=MsgBox.ChoiceAsString(tList a "Select a school in "theTambon+"tambon",
"school")
if (theSchool=NIL) then
        return NIL
end
```

```
‘turn the theme school on and active and select the chosen school for highlight
theView.FindTheme(“school.shp”). SetVisible(?TRUE)
theView.FindTheme(“school.shp”). SetActive(?TRUE)
theView.FindTheme(“theSchool)

Ex3. (edit by weerayuth suanpaga 11, jan2009)
'open for load the text file

thetab=av.Run( "Project.AddTable", NIL )

myTable = av.GetActiveDoc
myVTab  = myTable.GetVTab
tabname=myVTab.asString
'msgbox.info(tabname)

'theVTab.Export (aFileName, dBase, False)

'This script assumes that you already load a text table into Tables
'and the name of this is Points.txt
'created a new point theme via Ftab object

shpFTab = Ftab.MakeNew("PointTheme.shp".AsFileName,Point)
fields=List.Make
'Field.Make (aName, aFieldType, aWidth, aPrecision)
```

```
fields.Add(Field.Make("name",#FIELD_CHAR,4, 0))
shpFTab.AddFields(fields)

shpField = shpFTab.FindField("Shape")
nameField = shpFTab.FindField("Name")

'open the table points.txt

'theVTab_text=av.FindDoc("Points.txt").GetVTab
theVTab_text=av.FindDoc(tabname).GetVTab

'Xfield=theVTab_text.FindField("X")
'Yfield=theVTab_text.FindField("Y")
'nField=theVTab_text.FindField("Name")
Xfield=theVTab_text.FindField("N")
Yfield=theVTab_text.FindField("E")
nField=theVTab_text.FindField("Name")


'scan through the table
'read values x,y,Name and set to a record in shpFTab
for each r in theVTab_text
        X=theVTab_text.ReturnValue(Xfield,r)
        Y=theVTab_text.ReturnValue(Yfield,r)
        Name=theVTab_text.ReturnValue(nField,r)
```

```
'msgbox.info(X.asstring+" : "+Y.asstring, " ")
        thePoint=X@Y
        rec = shpFTab.AddRecord
        shpFTab.SetValueString (nameField, rec, name.trim)
shpFTab.SetValue(shpField, rec, thePoint)
end
'clean up flush the buffer to disk file
av.ClearStatus
av.ClearMsg
shpFTab.Flush

'load the theme into View1 and make active, visible
theName = SrcName.Make("PointTheme.shp")
theTheme=Theme.Make(theName)
'theView=av.FindDoc("view1")

theView=av.FindDoc("world")

theView.AddTheme(theTheme)
theTheme.SetVisible(TRUE)
theTheme.SetActive(TRUE)

'Lable the points
for each r in shpFTab
        thePoint=shpFTab.ReturnValue(shpField,r)
```

```
        'av.FindDoc("View1").Label(thePoint)
av.FindDoc("world").Label(thePoint)
end
```