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*'No. Matric : S61807*

TextWindow.ForegroundColor = "darkcyan"

**While**(endTheProgram <> "True")

loadItemData()

loadSalesData()

findBalance()

TextWindow.WriteLine(" Welcome to Main Menu ")

TextWindow.WriteLine("")

TextWindow.WriteLine(" \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_")

TextWindow.WriteLine(" | Codes | Type of Option |")

TextWindow.WriteLine(" |\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|")

TextWindow.WriteLine(" | A | Show current itemData and Sales data |")

TextWindow.WriteLine(" | B | Enter another data for itemFile |")

TextWindow.WriteLine(" | C | Enter another data for salesData |")

TextWindow.WriteLine(" |\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|")

TextWindow.WriteLine(" | Codes | Question |")

TextWindow.WriteLine(" |\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|")

TextWindow.WriteLine(" | 1 | Total sales(daily,weekly, and monthly) |")

TextWindow.WriteLine(" | 2 | Show high and demand item |")

TextWindow.WriteLine(" | 3 | Stock balance for specific date |")

TextWindow.WriteLine(" | 4 | Current stock balance |")

TextWindow.WriteLine(" | 5 | Checking critical stock item |")

TextWindow.WriteLine(" | 6 | Sales per item(weekly) |")

TextWindow.WriteLine(" | 7 | Prediction on future sales |")

TextWindow.WriteLine(" | 8 | Average sales each item per month |")

TextWindow.WriteLine(" | 0 | Exit the program |")

TextWindow.WriteLine(" | | |")

TextWindow.WriteLine(" | | |")

TextWindow.WriteLine(" | | |")

TextWindow.WriteLine(" |\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|")

TextWindow.WriteLine(" | Codes | Highly not recommended |")

TextWindow.WriteLine(" |\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|")

TextWindow.WriteLine(" | Z | Delete all the data |")

TextWindow.WriteLine(" |\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|")

TextWindow.WriteLine("")

TextWindow.Write(" Choose any option based on the code : ")

choose = TextWindow.Read()

**If**(choose = "A" or choose = "a") **Then**

itemAndsalesData() *' SUCCESS*

**elseif**(choose = "B" or choose = "b") **Then**

itemDataFile() *' SUCCESS*

**elseif**(choose = "C" or choose = "c") **Then**

salesDataFile() *' SUCCESS*

**elseif**(choose = 1) **Then**

question\_1() *' SUCCESS*

**elseif**(choose = 2) **Then**

question\_2() *'SUCCESS*

**elseif**(choose = 3) **Then**

question\_3() *' SUCCESS*

**elseif**(choose = 4) **Then**

question\_4() *'SUCCESS*

**elseif**(choose = 5) **Then**

question\_5() *'SUCCESS*

**elseif**(choose = 6) **Then**

question\_6() *'SUCCESS*

**elseif**(choose = 7) **Then**

question\_7() *'SUCCESS*

**elseif**(choose = 8) **Then**

question\_8() *' SUCCESS*

**elseif**(choose = 0) **Then**

endTheProgram = "True" *'SUCCESS*

**elseif**(choose = "Z" or choose = "z") **Then**

deleteAllFile() *' SUCCESS*

**endif**

**endwhile**

TextWindow.WriteLine("")

TextWindow.WriteLine(" Thank you for using our apps")

TextWindow.WriteLine("")

TextWindow.Write(" Press ENTER to end the program : ")

uselessButton = TextWindow.ReadNumber()

Program.End()

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

**Sub** loadItemData

path = ("C:\ZUL\Small Basic\Assignment\SmallBasic\File\FileIndividual")

readFile\_ItemData = File.ReadContents(path + "\ itemdata1.txt")

*'length = Text.GetLength(readFile\_ItemData)*

*'TextWindow.WriteLine("This file has "+length+" words")*

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

**For** i=1 **To** File.ReadLine(path + "\itemdata1.txt",1)

line1 = i

itemdata[i] = File.ReadLine(path + "\itemdata1.txt",i+1)

TextWindow.WriteLine(itemData[i]["itemName"])

TextWindow.WriteLine(itemData[i]["itemCode"])

TextWindow.WriteLine(itemData[i]["stockQty"])

TextWindow.WriteLine(itemData[i]["priceUnit"])

**Endfor**

**EndSub**

**Sub** loadSalesData

path = ("C:\ZUL\Small Basic\Assignment\SmallBasic\File\FileIndividual")

readFile\_SalesData = File.ReadContents(path + "\salesdata1.txt")

*'length = Text.GetLength(readFile\_SalesData)*

*'TextWindow.WriteLine("This file has "+length+" words")*

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

**For** i=1 **To** File.ReadLine(path + "\salesdata1.txt",1)

line2 = i

salesdata[i] = File.ReadLine(path + "\salesdata1.txt",i+1)

TextWindow.WriteLine(salesData[i]["day"])

TextWindow.WriteLine(salesData[i]["month"])

TextWindow.WriteLine(salesData[i]["year"])

TextWindow.WriteLine(salesData[i]["salesDate"])

TextWindow.WriteLine(salesData[i]["itemCode"])

TextWindow.WriteLine(salesData[i]["salesQty"])

**Endfor**

**EndSub**

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

**Sub** findBalance

convert = 0

*'BALANCE*

**For** i=1 **To** line1

itemData[i]["temp"] = itemdata[i]["stockQty"]

**EndFor**

**For** j=1 **To** line2

**For** i=1 **To** line1

**If** ( salesData[j]["itemcode"] = itemData[i]["itemCode"] ) **then**

salesData[j]["balance"] = itemData[i]["temp"]

salesData[j]["balance"] = salesData[j]["balance"] - salesData[j]["salesQty"]

itemData[i]["temp"] = salesData[j]["balance"]

**EndIf**

**EndFor**

**EndFor**

*'CURRENT BALANCE*

*'Pilih 1 je untuk didisplay kan, berbeza dengan question\_3, question\_4 hanya pakai 1 code untuk 1 kali display je, berdasarkan tarikh yang paling latest*

f=0

convert[f]["itemCode"] = 0

**For** j=line2 **To** 1 **Step**-1

**For** g=1 **To** line2

**If**(convert[g]["itemCode"] = salesData[j]["itemCode"]) **Then**

**Goto** here

**EndIf**

**EndFor**

f = f+1

*'convert ni digunakan untuk display barang2 yang berjaya dijual dan setiap item akan didisplay sekali sahaja. Yang tidak dijual atau code item yang sama tidak akan didisplaykan berulang kali*

convert[f]["itemCode"] = salesData[j]["itemCode"]

convert[f]["balance"] = salesData[j]["balance"]

convert[f]["SalesDate"] = salesData[j]["SalesDate"]

convert[f]["day"] = salesData[j]["day"]

convert[f]["month"] = salesData[j]["month"]

convert[f]["year"] = salesData[j]["year"]

here:

**EndFor**

**EndSub**

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

**Sub** itemAndsalesData

*'Display item Data*

TextWindow.WriteLine("")

TextWindow.WriteLine(" Item Data ")

TextWindow.WriteLine(" \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_")

TextWindow.WriteLine(" | Unit | ItemName | ItemCode | StockQty | PriceUnit |")

TextWindow.WriteLine(" |\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_|")

**For** i=1 **To** line1

TextWindow.WriteLine(" | "+i+" | "+itemdata[i]["itemName"]+" | "+itemdata[i]["itemCode"]+" | "+itemdata[i]["stockQty"]+" | "+itemdata[i]["priceUnit"]+" | ")

**EndFor**

TextWindow.WriteLine(" |\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_|")

TextWindow.WriteLine("")

*'Display sales Data*

TextWindow.WriteLine(" Sales Data ")

TextWindow.WriteLine(" \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_")

TextWindow.WriteLine(" | Unit | SalesDate | ItemCode | SalesQty |")

TextWindow.WriteLine(" |\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_|")

**For** x=1 **To** line2

TextWindow.WriteLine(" | "+x+" | "+salesData[x]["salesDate"]+" | "+salesData[x]["itemCode"]+" | "+salesData[x]["salesQty"]+" | ")

**EndFor**

TextWindow.WriteLine(" |\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_|")

TextWindow.WriteLine("")

*'Variable "uselessButton" ini tiada fungsi dalam project ni, sekadar untuk halang main menu didisplaykan awal2*

TextWindow.WriteLine("")

TextWindow.WriteLine("")

TextWindow.Write(" Press ENTER to go back to Main Menu : ")

uselessButton = TextWindow.ReadNumber()

**EndSub**

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

**Sub** itemDataFile

itemData()

File.DeleteFile(Program.Directory + "\itemdata1.txt")

File.DeleteFile(Program.Directory + "\itemdata1(backup).txt")

saveItemData()

*'Variable "uselessButton" ini tiada fungsi dalam project ni, sekadar untuk halang main menu didisplaykan awal2*

TextWindow.WriteLine("")

TextWindow.WriteLine("")

TextWindow.Write(" Press ENTER to go back to Main Menu : ")

uselessButton = TextWindow.ReadNumber()

**EndSub**

**Sub** itemData

line1 = line1 + 1

f = line1

**For** j=line1 **To** f

table1()

*'itemName*

TextWindow.WriteLine("")

TextWindow.Write(" Please enter ItemName : ")

itemdata[f]["itemName"] = TextWindow.Read()

table1()

TextWindow.WriteLine(" | "+f+" | "+itemdata[f]["itemName"]+" |")

*'iteamCode*

TextWindow.WriteLine("")

TextWindow.Write(" Please enter ItemCode : ")

itemdata[f]["itemCode"] = TextWindow.Read()

table1()

TextWindow.WriteLine(" | "+f+" | "+itemdata[f]["itemName"]+" | "+itemdata[f]["itemCode"]+" | ")

*'stockQty*

TextWindow.WriteLine("")

TextWindow.Write(" Please enter StockQty : ")

itemdata[f]["stockQty"] = TextWindow.Read()

table1()

TextWindow.WriteLine(" | "+f+" | "+itemdata[f]["itemName"]+" | "+itemdata[f]["itemCode"]+" | "+itemdata[f]["stockQty"]+" | ")

*'priceUnit*

TextWindow.WriteLine("")

TextWindow.Write(" Please enter PriceUnit : ")

itemdata[f]["priceUnit"] = TextWindow.Read()

table1()

TextWindow.WriteLine(" | "+f+" | "+itemdata[f]["itemName"]+" | "+itemdata[f]["itemCode"]+" | "+itemdata[f]["stockQty"]+" | "+itemdata[f]["priceUnit"]+" | ")

*'repeat for another unit*

TextWindow.WriteLine("")

TextWindow.Write(" You want to input another unit?(1 for yes and 0 for no) : ")

repeat = TextWindow.ReadNumber()

**If** repeat = 1 **then**

f = f+1

line1 = line1 + 1

**EndIf**

**If** repeat = 0 **Then**

f = f+1

table1()

f = f-1

TextWindow.WriteLine(" |\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_|")

**EndIf**

**EndFor**

**EndSub**

**Sub** table1

TextWindow.WriteLine(" \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_")

TextWindow.WriteLine(" | Unit | ItemName | ItemCode | StockQty | PriceUnit |")

TextWindow.WriteLine(" |\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_|")

**If** f <> 1 **Then**

**For** i=1 **To** f-1

TextWindow.WriteLine(" | "+i+" | "+itemdata[i]["itemName"]+" | "+itemdata[i]["itemCode"]+" | "+itemdata[i]["stockQty"]+" | "+itemdata[i]["priceUnit"]+" | ")

**EndFor**

**EndIf**

**EndSub**

**sub** saveItemData

File.AppendContents(Program.Directory + "\itemdata1.txt",line1)

File.AppendContents(Program.Directory + "\itemdata1(backup).txt",line1)

**For** i=1 **To** f

File.AppendContents(Program.Directory + "\itemdata1.txt",itemdata[i])

File.AppendContents(Program.Directory + "\itemdata1(backup).txt",itemdata[i])

**EndFor**

**EndSub**

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

**Sub** salesDataFile

salesData()

File.DeleteFile(Program.Directory + "\salesdata1.txt")

File.DeleteFile(Program.Directory + "\salesdata1(backup).txt")

saveSalesData()

*'Variable "uselessButton" ini tiada fungsi dalam project ni, sekadar untuk halang main menu didisplaykan awal2*

TextWindow.WriteLine("")

TextWindow.WriteLine("")

TextWindow.Write(" Press ENTER to go back to Main Menu : ")

uselessButton = TextWindow.ReadNumber()

**EndSub**

**Sub** salesData

line2 = line2 + 1

j = line2

**For** x=line2 **To** j

table2()

*'itemName*

TextWindow.WriteLine("")

TextWindow.Writeline(" Please enter Sales Dates(Use format DD/MM/YY) : ")

**while**(salesData[j]["day"] < salesData[j-1]["day"] And salesData[j]["month"] <= salesData[j-1]["month"] Or salesData[j]["year"] < salesData[j-1]["year"])

**if**(salesData[j]["day"] < salesData[j-1]["day"] And salesData[j]["month"] <= salesData[j-1]["month"] Or salesData[j]["year"] < salesData[j-1]["year"]) **Then**

TextWindow.WriteLine("")

TextWindow.WriteLine(" The date cannot be lower than previous data")

TextWindow.WriteLine("")

**EndIf**

TextWindow.Write(" Day : ")

salesData[j]["day"] = TextWindow.ReadNumber()

TextWindow.Write(" Month : ")

salesData[j]["month"] = TextWindow.ReadNumber()

TextWindow.Write(" Year : ")

salesData[j]["year"] = TextWindow.ReadNumber()

**EndWhile**

salesData[j]["salesDate"] = (salesData[j]["day"]+"/"+salesData[j]["month"]+"/"+salesData[j]["year"])

table2()

TextWindow.WriteLine(" | "+j+" | "+salesData[j]["salesDate"]+" | ")

*'iteamCode*

TextWindow.WriteLine("")

TextWindow.Write(" Please enter ItemCode : ")

salesData[j]["itemCode"] = TextWindow.Read()

table2()

TextWindow.WriteLine(" | "+j+" | "+salesData[j]["salesDate"]+" | "+salesData[j]["itemCode"]+" | ")

*'stockQty*

TextWindow.WriteLine("")

TextWindow.Write(" Please enter Sales Quantity : ")

salesData[j]["salesQty"] = TextWindow.Read()

table2()

TextWindow.WriteLine(" | "+j+" | "+salesData[j]["salesDate"]+" | "+salesData[j]["itemCode"]+" | "+salesData[j]["salesQty"]+" | ")

*'repeat for another unit*

TextWindow.WriteLine("")

TextWindow.Write(" You want to input another unit?(1 for yes and 0 for no) : ")

repeat = TextWindow.ReadNumber()

**If** repeat = 1 **then**

j = j+1

line2 = line2 + 1

**EndIf**

**If** repeat = 0 **Then**

j = j+1

table2()

j = j-1

TextWindow.WriteLine(" |\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_|")

**EndIf**

**EndFor**

**EndSub**

**Sub** table2

TextWindow.WriteLine(" \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_")

TextWindow.WriteLine(" | Unit | SalesDate | ItemCode | SalesQty |")

TextWindow.WriteLine(" |\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_|")

**If** j <> 1 **Then**

**For** x=1 **To** j-1

TextWindow.WriteLine(" | "+x+" | "+salesData[x]["salesDate"]+" | "+salesData[x]["itemCode"]+" | "+salesData[x]["salesQty"]+" | ")

**EndFor**

**EndIf**

**EndSub**

**sub** saveSalesData

File.AppendContents(Program.Directory + "\salesdata1.txt",line2)

File.AppendContents(Program.Directory + "\salesdata1(backup).txt",line2)

**For** x=1 **To** j

File.AppendContents(Program.Directory + "\salesData1.txt",salesData[x])

File.AppendContents(Program.Directory + "\salesData1(backup).txt",salesData[x])

**EndFor**

**EndSub**

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

**Sub** question\_1

TextWindow.WriteLine("")

TextWindow.WriteLine(" QUESTION 1")

*'Reset the Variable*

total = 0

q=0

*'FOR DAILY*

TextWindow.WriteLine("")

TextWindow.WriteLine(" Daily")

**For** j=1 **To** line2

**If**(day[q] <> salesData[j]["day"]) **Then**

q = q+1

**EndIf**

day[q] = salesData[j]["day"]

total[q]["daily"] = total[q]["daily"] + salesData[j]["salesQty"]

**For** i=1 **To** line1

**if** (salesData[j]["itemcode"] = itemData[i]["itemCode"]) **then**

total[q]["priceDaily"] = total[q]["priceDaily"] + ( salesData[j]["salesQty"] \* itemdata[i]["priceUnit"] )

**EndIf**

**EndFor**

**EndFor**

**For** x=1 **To** q

TextWindow.WriteLine(" In day "+day[x]+", total sales is RM"+total[x]["priceDaily"]+" with total item sales "+total[x]["daily"]+" item")

**EndFor**

*'FOR WEEKLY*

TextWindow.WriteLine("")

TextWindow.WriteLine(" Weekly")

**For** j=1 **To** line2

day[j] = salesData[j]["day"]

**If**(day[j] <= 07) **Then**

total[1]["weekly"] = total[1]["weekly"] + salesData[j]["salesQty"]

**For** i=1 **To** line1

**if** (salesData[j]["itemcode"] = itemData[i]["itemCode"]) **then**

total[1]["priceWeekly"] = total[1]["priceWeekly"] + ( salesData[j]["salesQty"] \* itemdata[i]["priceUnit"] )

**EndIf**

**EndFor**

**elseIf**(day[j] > 7 and day[q] <=14) **Then**

total[2]["weekly"] = total[2]["weekly"] + salesData[j]["salesQty"]

**For** i=1 **To** line1

**if** (salesData[j]["itemcode"] = itemData[i]["itemCode"]) **then**

total[2]["priceWeekly"] = total[2]["priceWeekly"] + ( salesData[j]["salesQty"] \* itemdata[i]["priceUnit"] )

**EndIf**

**EndFor**

**elseIf**(day[j] > 14 and day[q] <=21) **Then**

total[3]["weekly"] = total[3]["weekly"] + salesData[j]["salesQty"]

**For** i=1 **To** line1

**if** (salesData[j]["itemcode"] = itemData[i]["itemCode"]) **then**

total[3]["priceWeekly"] = total[3]["priceWeekly"] + ( salesData[j]["salesQty"] \* itemdata[i]["priceUnit"] )

**EndIf**

**EndFor**

**elseIf**(day[j] > 21) **Then**

total[4]["weekly"] = total[4]["weekly"] + salesData[j]["salesQty"]

**For** i=1 **To** line1

**if** (salesData[j]["itemcode"] = itemData[i]["itemCode"]) **then**

total[4]["priceWeekly"] = total[4]["priceWeekly"] + ( salesData[j]["salesQty"] \* itemdata[i]["priceUnit"] )

**EndIf**

**EndFor**

**EndIf**

**EndFor**

**For** q=1 **To** 4

TextWindow.WriteLine(" Total sales in week "+q+" is RM"+ total[q]["priceWeekly"]+" with total item sales "+total[q]["weekly"])

**EndFor**

*'FOR MONTHLY*

TextWindow.WriteLine("")

TextWindow.WriteLine(" Monthly")

q=0

**For** j=1 **To** line2

**If**(month[q] <> salesData[j]["month"]) **Then**

q = q+1

**EndIf**

month[q] = salesData[j]["month"]

total[q]["monthly"] = total[q]["monthly"] + salesData[j]["salesQty"]

**For** i=1 **To** line1

**if** (salesData[j]["itemcode"] = itemData[i]["itemCode"]) **then**

total[q]["priceMonthly"] = total[q]["priceMonthly"] + ( salesData[j]["salesQty"] \* itemdata[i]["priceUnit"] )

**EndIf**

**EndFor**

**EndFor**

**For** x=1 **To** q

TextWindow.WriteLine(" In month "+month[x]+", total sales is RM"+total[x]["priceMonthly"]+" with total item sales "+total[x]["monthly"]+" item")

**EndFor**

*'Variable "uselessButton" ini tiada fungsi dalam project ni, sekadar untuk halang main menu didisplaykan awal2*

TextWindow.WriteLine("")

TextWindow.WriteLine("")

TextWindow.Write(" Press ENTER to go back to Main Menu : ")

uselessButton = TextWindow.ReadNumber()

**EndSub**

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

**Sub** question\_2

TextWindow.WriteLine("")

TextWindow.WriteLine(" QUESTION 2")

prediction = 0

**For** x=1 **To** f

**For** i=1 **To** line1

**If**(convert[x]["itemCode"] = itemdata[i]["itemCode"]) **Then**

**If**(convert[x]["balance"] < itemdata[i]["stockQty"]/4) **Then**

prediction[i]["High"] = "True"

TextWindow.WriteLine(" "+itemdata[i]["itemName"]+"("+convert[x]["itemCode"]+") is a high demand item")

**Else**

prediction[i]["Low"] = "True"

TextWindow.WriteLine(" "+itemdata[i]["itemName"]+"("+convert[x]["itemCode"]+") is a low demand item")

**EndIf**

**EndIf**

**EndFor**

**EndFor**

*''Variable "uselessButton" ini tiada fungsi dalam project ni, sekadar untuk halang main menu didisplaykan awal2*

TextWindow.WriteLine("")

TextWindow.WriteLine("")

TextWindow.Write(" Press ENTER to go back to Main Menu : ")

uselessButton = TextWindow.ReadNumber()

**EndSub**

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

**Sub** question\_3

TextWindow.WriteLine("")

TextWindow.WriteLine(" QUESTION 3")

**For** j=1 **To** line2

**For** i=1 **To** line1

**If** ( salesData[j]["itemcode"] = itemData[i]["itemCode"] ) **then**

TextWindow.WriteLine(" In "+salesData[j]["salesDate"]+", the item "+itemData[i]["itemName"]+"("+salesData[j]["itemCode"]+") has a balance of "+salesData[j]["balance"])

**EndIf**

**EndFor**

**EndFor**

*'Variable "uselessButton" ini tiada fungsi dalam project ni, sekadar untuk halang main menu didisplaykan awal2*

TextWindow.WriteLine("")

TextWindow.WriteLine("")

TextWindow.Write(" Press ENTER to go back to Main Menu : ")

uselessButton = TextWindow.ReadNumber()

**EndSub**

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

**Sub** question\_4

TextWindow.WriteLine("")

TextWindow.WriteLine(" QUESTION 4")

**For** x=1 **To** f

**For** i=1 **To** line1

**If**(convert[x]["itemCode"] = itemdata[i]["itemCode"]) **Then**

TextWindow.WriteLine(" "+itemdata[i]["itemName"]+"("+convert[x]["itemCode"]+") has balance of "+convert[x]["balance"])

**EndIf**

**EndFor**

**EndFor**

*'Variable "uselessButton" ini tiada fungsi dalam project ni, sekadar untuk halang main menu didisplaykan awal2*

TextWindow.WriteLine("")

TextWindow.WriteLine("")

TextWindow.Write(" Press ENTER to go back to Main Menu : ")

uselessButton = TextWindow.ReadNumber()

**EndSub**

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

**Sub** question\_5

TextWindow.WriteLine("")

TextWindow.WriteLine(" QUESTION 5")

**For** j=1 **To** line2

**For** i=1 **To** line1

**If**( salesData[j]["itemcode"] = itemData[i]["itemCode"] and (salesData[j]["balance"] < itemData[i]["stockQty"]\*0.1)) **Then**

TextWindow.WriteLine(" The item "+itemdata[i]["itemName"]+"("+salesData[j]["itemcode"]+") has critical stock left")

**EndIf**

**EndFor**

**EndFor**

*'Variable "uselessButton" ini tiada fungsi dalam project ni, sekadar untuk halang main menu didisplaykan awal2*

TextWindow.WriteLine("")

TextWindow.WriteLine("")

TextWindow.Write(" Press ENTER to go back to Main Menu : ")

uselessButton = TextWindow.ReadNumber()

**EndSub**

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

**Sub** question\_6

TextWindow.WriteLine("")

TextWindow.WriteLine(" QUESTION 6")

**For** j=1 **To** line2

convertMonth = salesData[j]["month"]

**For** q=1 **To** 12

**If** (convertMonth = q) **Then**

convertDay = salesData[j]["day"]

**If**(convertDay<=7) **Then**

**For** i=1 **to** line1

**if** (salesData[j]["itemcode"] = itemData[i]["itemCode"]) **then**

total = salesData[j]["salesQty"] \* itemdata[i]["priceUnit"]

TextWindow.WriteLine(" In month "+convertMonth+", week 1, total sales for "+salesData[j]["itemCode"]+" is RM"+total)

**EndIf**

**EndFor**

**ElseIf**(convertDay<=14 and convertDay>7) **then**

**For** i=1 **to** line1

**if** (salesData[j]["itemcode"] = itemData[i]["itemCode"]) **then**

total = salesData[j]["salesQty"] \* itemdata[i]["priceUnit"]

TextWindow.WriteLine(" In month "+convertMonth+", week 2, total sales for "+salesData[j]["itemCode"]+" is RM"+total)

**EndIf**

**EndFor**

**ElseIf**(convertDay<=21 and convertDay>14) **then**

**For** i=1 **to** line1

**if** (salesData[j]["itemcode"] = itemData[i]["itemCode"]) **then**

total = salesData[j]["salesQty"] \* itemdata[i]["priceUnit"]

TextWindow.WriteLine(" In month "+convertMonth+", week 3 , total sales for "+salesData[j]["itemCode"]+" is RM"+total)

**EndIf**

**EndFor**

**ElseIf**(convertDay>21) **then**

**For** i=1 **to** line1

**if** (salesData[j]["itemcode"] = itemData[i]["itemCode"]) **then**

total = salesData[j]["salesQty"] \* itemdata[i]["priceUnit"]

TextWindow.WriteLine(" In month "+convertMonth+", week 4, total sales for "+salesData[j]["itemCode"]+" is RM"+total)

**EndIf**

**EndFor**

**EndIf**

**EndIf**

**EndFor**

**Endfor**

*'Variable "uselessButton" ini tiada fungsi dalam project ni, sekadar untuk halang main menu didisplaykan awal2*

TextWindow.WriteLine("")

TextWindow.WriteLine("")

TextWindow.Write(" Press ENTER to go back to Main Menu : ")

uselessButton = TextWindow.ReadNumber()

**EndSub**

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

**Sub** question\_7

TextWindow.WriteLine("")

TextWindow.WriteLine(" QUESTION 7")

*' Potongan dari source code "Question 2"*

**For** x=1 **To** f

**For** i=1 **To** line1

**If**(convert[x]["itemCode"] = itemdata[i]["itemCode"]) **Then**

**If**(convert[x]["balance"] < itemdata[i]["stockQty"]/4) **Then**

prediction[i]["High"] = "True"

**Else**

prediction[i]["Low"] = "True"

**EndIf**

**EndIf**

**EndFor**

**EndFor**

*'Pengiraan untuk "Question 7"*

**For** i=1 **To** line1

**If**(prediction[i]["High"] = "True" ) **Then**

TextWindow.Write(" "+itemdata[i]["itemName"]+"("+itemdata[i]["itemCode"]+") is a very high product. I think thats in the future, the product should be paired along with ")

error = "false"

**For** x=1 **To** line1

**If**(error <> "True") **then**

**While**(prediction[x]["Low"] <> "True")

x = Math.GetRandomNumber(line1)

**EndWhile**

TextWindow.WriteLine(itemData[x]["itemName"]+"("+itemdata[x]["itemCode"]+") because that item is a low sales product.")

error = "true"

**EndIf**

**EndFor**

**EndIf**

**EndFor**

*'Variable "uselessButton" ini tiada fungsi dalam project ni, sekadar untuk halang main menu didisplaykan awal2*

TextWindow.WriteLine("")

TextWindow.WriteLine("")

TextWindow.Write(" Press ENTER to go back to Main Menu : ")

uselessButton = TextWindow.ReadNumber()

**EndSub**

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

**Sub** question\_8

TextWindow.WriteLine("")

TextWindow.WriteLine(" QUESTION 8")

average = 0

**For** month=1 **To** 12

**For** x=1 **To** f

**If**(month = convert[x]["month"]) **Then**

**For** i=1 **To** line1

**If**(convert[x]["itemCode"] = itemdata[i]["itemCode"]) **Then**

average[x]["totalSales"] = (itemdata[i]["stockQty"] - convert[x]["balance"])

average[x]["averageSales"] = (average[x]["totalSales"]/30)

TextWindow.WriteLine(" In month "+month+", "+itemdata[i]["itemName"]+"("+convert[x]["itemCode"]+") average sales a day is "+average[x]["averageSales"]+" per month")

**EndIf**

**EndFor**

**EndIf**

**EndFor**

**EndFor**

*'Variable "uselessButton" ini tiada fungsi dalam project ni, sekadar untuk halang main menu didisplaykan awal2*

TextWindow.WriteLine("")

TextWindow.WriteLine("")

TextWindow.Write(" Press ENTER to go back to Main Menu : ")

uselessButton = TextWindow.ReadNumber()

**EndSub**

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

**Sub** deleteAllFile

TextWindow.WriteLine("")

TextWindow.WriteLine("")

TextWindow.WriteLine("")

TextWindow.WriteLine("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*( Open file 'itemData(backup)' and 'salesData(backup)' to check back your previous data )\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

TextWindow.WriteLine("")

TextWindow.Write(" Do you really wish to delete all the file?(press 'z' to confirm) : ")

delete = TextWindow.Read()

**If**(delete = "Z" Or delete = "z") **Then**

File.DeleteFile(Program.Directory + "\itemData.txt")

File.DeleteFile(Program.Directory + "\salesData.txt")

TextWindow.WriteLine("")

TextWindow.WriteLine(" Deleting data SUCCESS")

**EndIf**

*'Variable "uselessButton" ini tiada fungsi dalam project ni, sekadar untuk halang main menu didisplaykan awal2*

TextWindow.WriteLine("")

TextWindow.WriteLine(" Deleting data FAILED")

TextWindow.WriteLine("")

TextWindow.WriteLine("")

TextWindow.Write(" Press ENTER to go back to Main Menu : ")

uselessButton = TextWindow.ReadNumber()

**EndSub**

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

