TextWindow.Clear()

TextWindow.BackgroundColor = "Blue"

TextWindow.ForegroundColor = "White"

TextWindow.WriteLine("3a.")

' a. Design a program for MySelf College.

' The current tuition is $15,000 per year,

' and tuition fee is expected to increase by 4 percent each year.

' Display the tuition each year for the next 10 years.

tuition = 15000

rate = 1.04

for i=1 to 10

tuition = tuition \* rate

l = Text.GetIndexOf(tuition, ".")

tuition = Text.GetSubText(tuition, 1, l+2)

textwindow.WriteLine("year " + i + ": RM" + tuition)

endfor

TextWindow.WriteLine("")

TextWindow.WriteLine("3b.")

' b. Modify the MySelf College program so that the

' user enters the rate of tuition increase instead of having it fixed at 4 percent.

' Display the tuition each year for the next 10 years.

tuition = 15000

TextWindow.Write("Rate (±%): ")

rate = 1 + TextWindow.readNumber()/100 'for instance: 5 -> 1.05

for i=1 to 10

tuition = tuition \* rate

l = Text.GetIndexOf(tuition, ".")

tuition = Text.GetSubText(tuition, 1, l+2)

textwindow.WriteLine("year " + i + ": RM" + tuition)

endfor

TextWindow.WriteLine("")

TextWindow.WriteLine("3c.")

' c. Modify the MySelf College program so that the

' user enters the rate of tuition increase for the first year.

' The rate then increases by 0.5 percent each subsequent year.

tuition = 15000

TextWindow.Write("Rate (±%): ")

rate = 1 + TextWindow.readNumber()/100 'for instance: 5 -> 1.05

for i=1 to 10

tuition = tuition \* rate

l = Text.GetIndexOf(tuition, ".")

tuition = Text.GetSubText(tuition, 1, l+2)

textwindow.WriteLine("year " + i + ": RM" + tuition)

rate = rate + 0.005

endfor

