Start

INTEGER areaCode

INTEGER phoneNumber

INTEGER numTexts

INTEGER = 5.00

INTEGER taxRate = 0.14

INTEGER sentinelValue = -1

INTEGER specificAreaCode

BOOLEAN showCustomerDetails

OUTPUT "Enter a specific three-digit area code to view bills (or -1 to skip filtering):"

INPUT specificAreaCode

WHILE true DO

OUTPUT "Enter area code (or -1 to stop):"

INPUT areaCode

IF areaCode == sentinelValue THEN

BREAK

ENDIF

OUTPUT "Enter phone number (7 digits):"

INPUT phoneNumber

OUTPUT "Enter the total number of text messages sent:"

INPUT numTexts

INPUT basefee

IF numTexts <= 100 THEN

SET totalBill = baseFee

ELSE IF numTexts <= 300 THEN

SET totalBill = baseFee + (numTexts - 100) \* 0.03

ELSE

SET totalBill = baseFee + (200 \* 0.03) + (numTexts - 300) \* 0.02

ENDIF

SET totalBill = totalBill + (totalBill \* taxRate)

SET showCustomerDetails = false

IF numTexts > 100 THEN

SET showCustomerDetails = true

ENDIF

IF totalBill > 10 THEN

SET showCustomerDetails = true

ENDIF

IF specificAreaCode != -1 AND areaCode == specificAreaCode THEN

SET showCustomerDetails = true

ENDIF

IF showCustomerDetails THEN

OUTPUT "Customer details:"

OUTPUT "Area Code: " + str(areaCode)

OUTPUT "Phone Number: " + str(phoneNumber)

OUTPUT "Number of Text Messages: " + str(numTexts)

OUTPUT "Monthly Bill (before tax): $" + str((totalBill / (1 + taxRate)))

OUTPUT "Monthly Bill (after tax): $" + str(totalBill)

ELSE

OUTPUT "No details to display for this customer based on the conditions."

END IF

END WHILE

Stop