begin

Declarations

num messagesSent

num billBeforeTax

num billAfterTax

num baseCharge

num extraCharge

string areaCode

string phoneNumber

string specificAreaCode

string menuOption

string continueProgram

string PROMPT\_AREA\_CODE = “Enter area code or 000 to quit: “

string END\_OF\_CODE = “000”

string PROMPT\_PHONE\_NUMBER = “Enter phone number: “

string PROMPT\_MESSAGES = “Enter number of text messages sent: “

string PROMPT\_CONTINUE = “Do you want to return to the menu? Yes or No”

string SHOW\_AREA = “Area Code: “

string SHOW\_PHONE\_NUMBER = “Phone Number: “

string SHOW\_MESSAGES = “Messages Sent: “

string SHOW\_BEFORE\_TAX = “Bill Before Taxes is: $”

string SHOW\_AFTER\_TAX = “Bill After Taxes is: $”

houseKeeping()

WHILE continueProgram = “Yes”

IF menuOption = “1” THEN

oneCustomer()

ENDIF

IF menuOption = “2” THEN

textMessages()

ENDIF

IF menuOption = “3” THEN

over100Texts()

ENDIF

IF menuOption = “4” THEN

billOver10()

ENDIF

IF menuOption = “5” THEN

areaCodeSpecific()

ENDIF

ENDWHILE

endOfJob()

end

houseKeeping()

output “The Dash Cell Phone Company Charges Program.”

showMenu()

input menuOption

continueProgram = “Yes”

return

endOfJob()

output “There are no more charges to input.”

return

showMenu()

output “Select an option:”

output “Press 1 to display Bill for one customer”

output “Press 2 to display all customers until done”

output “Press 3 to display only customers with over 100 messages”

output “Press 4 to display only customers with a bill over $10”

output “Press 5 to display only customers with the selected area code”

return

oneCustomer()

output PROMPT\_AREA\_CODE

input areaCode

output PROMPT\_PHONE\_NUMBER

input phoneNumber

output PROMPT\_MESSAGES

input messagesSent

calculateBill()

showCustomerInfo()

output PROMPT\_CONTINUE

input continueProgram

IF continueProgram = “Yes” THEN

showMenu()

input menuOption

ENDIF

return

textMessages()

output PROMPT\_AREA\_CODE

input areaCode

WHILE areaCode <> END\_OF\_CODE

output PROMPT\_PHONE\_NUMBER

input phoneNumber

output PROMPT\_MESSAGES

input messagesSent

calculateBill()

showCustomerInfo()

output PROMPT\_AREA\_CODE

input areaCode

ENDWHILE

output PROMPT\_CONTINUE

input continueProgram

IF continueProgram = “Yes” THEN

showMenu()

input menuOption

ENDIF

return

over100Texts()

output PROMPT\_AREA\_CODE

input areaCode

WHILE areaCode <> END\_OF\_CODE

output PROMPT\_PHONE\_NUMBER

input phoneNumber

output PROMPT\_MESSAGES

input messagesSent

IF messagesSent > 100 THEN

calculateBill()

showCustomerInfo()

ENDIF

output PROMPT\_AREA\_CODE

input areaCode

ENDWHILE

output PROMPT\_CONTINUE

input continueProgram

IF continueProgram= “Yes” THEN

showMenu()

input menuOption

ENDIF

return

billOver10()

output PROMPT\_AREA\_CODE

input areaCode

WHILE areaCode <> END\_OF\_CODE

output PROMPT\_PHONE\_NUMBER

input phoneNumber

output PROMPT\_MESSAGES

input messagesSent

calculateBill()

IF billAfterTax > 10 THEN

showCustomerInfo()

ENDIF

output PROMPT\_AREA\_CODE

input areaCode

ENDWHILE

output PROMPT\_CONTINUE

input continueProgram

IF continueProgram = “Yes” THEN

showMenu()

input menuOption

ENDIF

return

areaCodeSpecific()

output “Enter specified area code: “

input specificAreaCode

output PROMPT\_AREA\_CODE

input areaCode

WHILE areaCode <> END\_OF\_CODE

output PROMPT\_PHONE\_NUMBER

input phoneNumber

output PROMPT\_MESSAGES

input messagesSent

calculateBill()

IF areaCode = specificAreaCode THEN

showCustomerInfo()

ENDIF

output PROMPT\_AREA\_CODE

input areaCode

ENDWHILE

output PROMPT\_CONTINUE

input continueProgram

IF continueProgram = “Yes” THEN

showMenu()

input menuOption

ENDIF

return

calculateBill()

baseCharge = 5.00

IF messagesSent <= 100 THEN

extraCharge = 0.00

ELSE

IF messagesSent <= 300 THEN

extraCharge = (messagesSent - 100) \* .03

ELSE

extraCharge = (messagesSent - 300) \* .02 + 200 \* .03

ENDIF

ENDIF

billBeforeTax = baseCharge + extraCharge

billAfterTax = billBeforeTax \* 1.14

return

showCustomerInfo()

output SHOW\_AREA, areaCode

output SHOW\_PHONE\_NUMBER, phoneNumber

output SHOW\_MESSAGES, messagesSent

output SHOW\_BEFORE\_TAX, billBeforeTax

output SHOW\_AFTER\_TAX, billAfterTax

return