

## ICE TASK 2

A)

Start

Declarations

Num custAreaCode  
Num custPhoneNum  
Num numTxtMsgs  
Num CostofTextMsgs  
Num BeforeTax  
Num AfterTax  
Num BASE\_RATE=5  
Num MIN\_MSGS=100  
Num MAX\_MSGS=300  
Num MIN\_RATE=0.03  
Num MAX\_RATE=0.02  
Num TAX\_RATE=0.14

Housekeeping()

Details()

Finish()

Stop

Housekeeping()

Output "my phone program"

Input custAreaCode, custPhoneNum, numTextMsgs

Return

Details()

BeforeTax=BASE\_RATE

If numTxtMsgs >MIN\_MSGS then

BeforeTax=(numTxtMsgs-100)\*MIN\_RATE;

Else if numTxtMsgs >MAX\_MSGS then

BeforeTax=(numTxtMsgs-300)\*MAX\_RATE;

Endif

AfterTax= (BeforeTax)\*(TAX\_RATE);

output "custAreaCode, custPhoneNum, numTxtMsgs,BeforeTax,AfterTax"

return

Finish()

output "End of Program"

return

B)

Start

Declarations

Num custAreaCode

Num custPhoneNum

Num numTxtMsgs

Num CostofTextMsgs

Num BeforeTax

Num AfterTax

Num BASE\_RATE=5

Num MIN\_MSGS=100

Num MAX\_MSGS=300

Num MIN\_RATE=0.03

Num MAX\_RATE=0.02

Num TAX\_RATE=0.14

String inputbox ="Enter -1 to end"

Num Sent=-1

Housekeeping()

Details()

Finish()

Stop

Housekeeping()

Output inputbox

While custAreaCode <> Sent

Details()

Endwhile

Finish()

Return

Details()

BeforeTax=BASE\_RATE

If numTxtMsgs >MIN\_MSGS then

BeforeTax=(numTxtMsgs-100)\*MIN\_RATE;

Else if numTxtMsgs >MAX\_MSGS then

BeforeTax=(numTxtMsgs-300)\*MAX\_RATE;

Endif

AfterTax= (BeforeTax)\*(TAX\_RATE);

output "custAreaCode, custPhoneNum, numTxtMsgs,BeforeTax,AfterTax"

return

Finish()

output "End of Program"

return

C)

Start

Declarations

Num custAreaCode

Num custPhoneNum

Num numTxtMsgs

Num CostofTextMsgs

Num BeforeTax

Num AfterTax

Num BASE\_RATE=5

Num MIN\_MSGS=100

Num MAX\_MSGS=300

Num MIN\_RATE=0.03

Num MAX\_RATE=0.02

Num TAX\_RATE=0.14

Num Sent=-1

String inputbox ="Enter -1 to end"

Housekeeping()

Details()

Finish()

Stop

Housekeeping()

While custAreaCode <> Sent

Details()

Endwhile

Finish()

Output inputbox

Input custAreaCode, custPhoneNum, numTextMsgs

Finish(

Return

Details()

BeforeTax=BASE\_RATE

If numTxtMsgs >MIN\_MSGS then

BeforeTax=(numTxtMsgs-100)\*MIN\_RATE;

Else if numTxtMsgs >MAX\_MSGS then

BeforeTax=(numTxtMsgs-300)\*MAX\_RATE;

Endif

AfterTax= (BeforeTax)\*(TAX\_RATE);

If numTxtMsgs>MIN\_MSGS then

output "custAreaCode, custPhoneNum, numTxtMsgs,BeforeTax.AfterTax"

Output inputbox

Input custAreaCode

endif

return

Finish()

output "End of Program"

return

D)

Start

Declarations

Num custAreaCode

Num custPhoneNum

Num numTxtMsgs

Num CostofTextMsgs

Num BeforeTax

Num AfterTax

Num BASE\_RATE=5

Num MIN\_MSGS=100

Num MAX\_MSGS=300

Num MIN\_RATE=0.03

Num MAX\_RATE=0.02

Num TAX\_RATE=0.14

Num DISPLAYAMT=10

Num Sent=-1

String inputbox ="Enter -1 to end"

Housekeeping()

Details()

Finish()

Stop

Housekeeping()

Output inputbox

Input custAreaCode, custPhoneNum, numTextMsgs

While custAreaCode <> Sent

Details()

Endwhile

Return

Details()

BeforeTax=BASE\_RATE

If numTxtMsgs >MIN\_MSGS then

```

    BeforeTax=(numTxtMsgs-100)*MIN_RATE;
    Else if numTxtMsgs >MAX_MSGS then
    BeforeTax=(numTxtMsgs-300)*MAX_RATE;
    Endif
    AfterTax= (BeforeTax)*(TAX_RATE);
    If AfterTax > DISPLAYAMT then
output "custAreaCode, custPhoneNum, numTxtMsgs,BeforeTax.AfterTax"

endif
return
    Finish()
        output "End of Program"
return

```

E)

Start

Declarations

```

    Num custAreaCode
    Num custPhoneNum
    Num numTxtMsgs
    Num CostofTextMsgs
    Num BeforeTax
    Num AfterTax
    Num BASE_RATE=5
    Num MIN_MSGS=100
    Num MAX_MSGS=300
    Num MIN_RATE=0.03
    Num MAX_RATE=0.02
    Num TAX_RATE=0.14
    Num DISPLAYAMT=10
    Num Sent=-1
    String inputAreaCode="Enter an Area Code"

```

```

        String inputbox ="Enter -1 to end "
    Housekeeping()
    Details()
    Finish()
Stop
    Housekeeping()
    Output inputAreaCode
    Input custAreaCode, custPhoneNum, numTextMsgs
    While custAreaCode <> Sent
        Details()
    Endwhile
Return
    Details()
While inputAreaCode = custAreaCode
    BeforeTax=BASE_RATE
    If numTxtMsgs >MIN_MSGS then
        BeforeTax=(numTxtMsgs-100)*MIN_RATE;
    Else if numTxtMsgs >MAX_MSGS then
        BeforeTax=(numTxtMsgs-300)*MAX_RATE;
    Endif
    AfterTax= (BeforeTax)*(TAX_RATE);
    Endwhile
    While custAreaCode <> Sent
        output "custPhoneNum, numTxtMsgs,BeforeTax.AfterTax,custAreaCode"
    endwhile
return
    Finish()
        output "End of Program"
return

```