***FOR QUESTION 1***

BEGIN

CREATE dictionary "capitals" with key-value pairs for states and their capitals

DISPLAY "Please enter the name of the state of which you want the capital of:"

GET user input for the state

IF the input state exists in the capitals dictionary

DISPLAY "The capital of {state} is {capital}"

ELSE

DISPLAY "State not found. (Perhaps you misspelled it?)"

END

***FOR QUESTION 2***

BEGIN

CREATE list "Items" containing 'Apple', 'Banana', 'Orange', 'Grapes', 'Mango', 'Pineapple', 'Watermelon', 'Peach', 'Strawberry', 'Cherry'

CREATE empty list "Basket"

WHILE True:

DISPLAY "\nSelect an item by entering the number next to it:

FOR each item in "Items" with index i:

DISPLAY "{i}. {item}"

GET user input as integer "selection"

DISPLAY "Enter the number of the item you want to add to the basket (Enter 0 to exit):"

IF selection is 0:

BREAK

IF selection is between 1 and the length of "Items":

ADD "Items[selection - 1]" to "Basket"

DISPLAY "Added {Items[selection - 1]} to your basket."

ELSE:

DISPLAY "Invalid selection. Please try again."

DISPLAY "\nYour basket contains:"

FOR each item in "Basket":

DISPLAY "{item}"

END