Assignment 16 Habsatou War

Design to program to determine business travel expenses that are reimbursable.

inputs:	
Number of Days of Trip	- Integer
Air Travel Costs	- Double
Total Lodging Costs for the trip	- Double
Total Food Costs for the trip	- Double
Status(Management or non-management)	- RadioBox

outputs:	
Total Travel Costs	- Double
Total Amount Reimbursed by Company.	- Double
Total Employee Responsible Amount	- Double

Validations:

IF Number of Days of Trip != " " **THEN**

   return true

END IF

IF Air Travel Costs != "" **THEN**

   return true

END IF

IF Total Lodging Costs for the trip != "" **THEN**

   return true

END IF

IF Total Food Costs for the trip >= 0 **THEN**

    return true

END

Calculations

Total Travel cost = GET (Number of Days of Trip, Air Travel Costs, Total Lodging Costs for the trip

, Total Food Costs for the trip)

        return.   Air Travel Costs + Total Lodging Costs for the trip + Total Food Costs for the trip

Total Amount Reimbursed by Company = GET (Number of Days of Trip)

 IF Management **THEN**

       Total Amount Reimbursed by Company = (Total Food Costs for the trip perDiem + Total Lodging Costs for the trip PerDiem)* Number of Days of Trip + 500

ELSEIF Non-Management **THEN**

Total Amount Reimbursed by Company = (Total Food Costs for the trip perDim + Total Lodging Costs for the tripPerDim)* Number of Days of Trip + 400

 END IF

return Total Amount Reimbursed by Company

END IF

Total Employee Responsible Amount = Total Travel cost – Total Amount Reimbursed by Company

if Total Employee Responsible Amount < 0 Then Total Employee Responsible Amount = 0

Test Cases. 1	Expected result	Actual result
Number of Days of Trip : 5	Total Travel Costs. : 1700	1700
Air Travel Costs. : 200.	Total Amount Reimbursed by Company: 500	500
Total Lodging Costs for the trip: 200.	Total Employee Responsible Amount. : 0	0
Total Food Costs for the trip: 100		
Status : Management		

Test Cases. 2	Expected result	Actual result
Number of Days of Trip: 2.	Total Travel Costs: 900	900
Air Travel Costs: 400	Total Amount Reimbursed by Company: 700.	700
Total Lodging Costs for the trip: 300	Total Employee Responsible Amount: 200.	200
Total Food Costs for the trip: 200		
Status : Non Management		

Test Cases. 3	Expected result	Actual result
Number of Days of Trip : 8	Total Travel Costs. : 2150	2150
Air Travel Costs: 500	Total Amount Reimbursed by Company: 550	2100
Total Lodging Costs for the trip : 800	Total Employee Responsible Amount : 50	50
Total Food Costs for the trip : 850		
Status : Management		