Application designed to find the Cheapest way to get from A to z or A back around to the

Application designed to find the most & cost effective way for a user to get from A to Z or A back around to A. The user inputs a list of cities/Airports they wish to go to and the program finds the best note for the user without repetition.

array list of user entered locations - recursive algorithm A, B, C, D, E} hash map of best route Start location 1 Pre - conditions

array list of user entered locations - recursive (A, B, C, D, E) algorithm dictionary start location hash map of best route Pre-conditions stored in DB (for Sample) $C \begin{cases} D = 5 \\ B = 15 \end{cases}$ $\begin{cases} A = 20 \\ E = 25 \end{cases}$ $\begin{cases} A = 16 \\ C = 15 \end{cases}$ BAR= 15 user input array was userin { } temp hashmap array temp[] final hashmap array -> final {} Address to proceed to proceed to proceed to the process of the pro best_route (taclex, user_in array) & | cost = get cost (location) | clest_cost (location) | clest_cost (location) | temp. append (dest-location, dest cost)} for (i >) end of array) { IF (current array loc == current)}

```
temp hashmap
final hoshmap
best route (index, user-in array) {

for (i > end of array)

dest cost = getCost ( array[i])

temp.append (array[i], getCost destCost)

sorting algorithm to find cheapest destination

final append (cheapest)

user-in. remove (cheapest)

clear temp array

if (user-in. is empty ())

tree return final

else

best route (cheapest, user-in array)
```