Subroutine view\_Room

structure Room

declare RoomNum as int

declare RoomName as string

declare GuestLim as int

declare FamilyRoom as boolean

declare Price as string

end structure

openfile (RoomDetails)

read(RoomList)

tempRoomList = RoomList

closefile(RoomDetails)

Output "Enter Room Number"

input RoomNum

#validation here

#search function

n = length(tempRoomList)

Set lowerBound = 1

Set upperBound = n

while RoomNum not found

if upperBound < lowerBound

Output RoomNum + "does not exist".

set midPoint = lowerBound + ( upperBound - lowerBound ) / 2

if tempRoomList[midPoint] < RoomNum

set lowerBound = midPoint + 1

if tempRoomList[midPoint] > RoomNum

set upperBound = midPoint - 1

if tempRoomList[midPoint] = RoomNum

RoomName = tempRoomList[midPoint][0]

GuestLim= tempRoomList[midPoint][1]

FamilyRoom = tempRoomList[midPoint][2]

Price= tempRoomList[midPoint][3]

Output "Room Number = " + str(RoomNum)

Output "Room Name = " + str(RoomName)

Output "Guest Limit = " + str(GuestLim)

Output "Family Room = " + str(Family Room)

Output "Price = " + str(Price)

end while

end view\_Room