1. Problem Definition: Write a program that offers the user 2 options. One option to create a text file containing a name string and an email string for a bunch of people. The second option to read and display the names and email addresses.
2. Problem Analysis: Open the files in ‘a’ (append) mode to add records and in ‘r’ mode to read records.
3. Program Algorithm:

* Create a command line that sources between an if loop
* While Loop to have a continuous command
* Create a command that is for appending text file
* Create a command that is for reading text files

1. Program Code and Test:

# Author = "Darren Isaacson"

# This program is designed to create a text file and adds emails to it.

try:

print("This is a text file creating program!")

print("a = Will add entry to an existing file and or create a file. This adds emails into your text file. ")

print("r = Displays your text file depending on your path link.")

print("exit = Closes the program")

print("------------------------------------------------------------------")

while True:

command = input("Command:") # User input

if command == 'a': # Adds and creates text file.

myfilePath = open(input("What do you want your file name to be:") , 'a') # Opens file or creates a new one.

numofRecords = int(input("How many people would you like to add into you text file?")) # How many emails are being added.

for i in range(numofRecords): # Loops for adding email data

getName = input("What is the name of contact number %d" %(i + 1)) # Gathers name

getEmail = input("What is " + str(getName) + "'s email?") # Gathers Emails

myfilePath.write(getName + "'s email is: " + getEmail + "\n") # Saves to text file

print("Contact number %s is saved" % (i + 1))

myfilePath.close()

elif command == "r": # Read text file

myfilePath = open(input("What is the full file path for your text doc:"),'r') # Opens the file in read mode based off path link that the user gives.

print("Emails \n---------------------------------------------------------")

print(myfilePath.read())

myfilePath.close()

elif command == 'exit': # Closes program

print("Thanks for using the program")

break

else: # Command validation

print("That is not a vaild command. Try again.")

except: # except issues.

print("There was an error somewhere")

Output:







