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Assignment: ssn

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A screenshot of a computer

Description automatically generated with medium confidence

def read\_file(directory):

    """

    Open file and read its content

    Param

    - directory: directory of a file

    Return: String content inside the file

    """

    try:

        with open(directory) as file:

            return file.read()

    except FileNotFoundError:

        print("File is not found")

def append\_file(directory, text):

    """

    Open and append ssn into file

    Param

    - directory: directory of the desired file to be written

    - text: the text to be written into the file

    """

    try:

        with open(directory, "a") as file:

            file.write(text + "\n")

    except FileNotFoundError:

        print("File is not found")

def ssn\_search(text):

    """

    Search for the SSN using for loop

    Param

    - text: the text that will be seached for SSN

    Return: list of all SSN numbers found in text

    """

    ssn\_list = []

    for index in range(11, len(text)):

        ssn = text[(index-11) : (index)]

        if ((ssn[3:4] == "-") and (ssn[6:7] == "-")):

            if ((ssn[0:3].isdigit()) and (ssn[4:6].isdigit()) and (ssn[7:10].isdigit())):

                ssn\_list.append(ssn)

    return ssn\_list

def main():

    """

    Main function to read, write the searched SSN into a new file

    Requirement:

    - The directory of the file to be read

    - The directory of the file to be append SSN

    """

    text = read\_file('info.txt')

    if (text != None):

        ssn\_list = ssn\_search(text)

        for ssn in ssn\_list:

            append\_file('ssn.txt', ssn)

    else:

        print("The text is either not exist or cannot be read")

main()