```
# Open a file
fo = open("data.txt", "w") # this file is in current directory
fo.write("Python is a great language.")
# Close open file
fo.close()
# File IO demonstration
filename = input("Enter the file name full path: ")
print ("The file name you have entered is ", filename)
file1 = open(filename, "w")
radius = 1.5
area = radius * 3.132 * 3.142
file1.write("With radius = %.2f, the area = %.2f" % (radius, area))
file1.close()
Sample of running program
Enter the file name full path: c:\\temp\\data2.txt
The file name you have entered is c:\\temp\\data2.txt
```

Example	e – running program on MAC
Enter the	e file name full path: /Users/staff/downloads/data2.txt
The file	name you have entered is: /Users/staff/downloads/data2.tx
You can	also enter using a single slash symbol:
Enter the	e file name full path: c:\temp\data2.txt
The file	name you have entered is c:\temp\data2.txt
# Exami	ple program on File I/O
def mair	
	en file for output on C drive under temp directory
•	e = open("c:\\temp\\Presidents.txt", "w")
# Writ	te data to the file
outfile	e.write("Bill Clinton\n")
outfile	e.write("George Bush\n")
outfile	e.write("Barack Obama")
# Clos	se the output file
outfile.	.close()
main()	

```
#This program reads the line in the input file and writes that
#line to an output file. A text line is also appended to the
#ouput file.
def main():
     #open the existing data.txt file as input file
     inputFile = open("C:\\temp\\data.txt", "r"))
         #create new result.txt file as output file
     outputFile = open("C:\\temp\\results.txt", "w")
         #read one line from inputFile and write the line to outputFile
     for line in inputFile:
          outputFile.write(line + "\n")
         #Append a line of text to outputFile
     outputFile.write("Computer Programming is exciting!\n")
     inputFile.close()
     outputFile.close()
main()
import os
def main():
  # Prompt the user to enter filenames
```

```
f1 = input("Enter a filename: ").strip()
  if os.path.isfile(f1):
     # Open files for input
     infile = open(f1, "r")
     s = infile.read() # Read all from the file
     scores = [ eval(x) for x in s.split() ]
     print(scores)
     print("There are ", len(scores), " scores")
     print("The total is ", sum(scores))
     print("The average is ", sum(scores) / len(scores))
     infile.close()
  else:
     print ("Failed to open file!")
main()
# Read from file that contain name and two scores per line.
# Print the name and the average score
import os
def main():
  # Prompt the user to enter filenames
  f1 = input("Enter a filename: ").strip()
```

#

```
if os.path.isfile(f1):
     # Open files for input
     infile = open(f1, "r")
     line = infile.readline() # Read a line
     while line != ": # read until end-of-file
        splitLine = line.split()
        t1 = eval(splitLine[2])
        t2 = eval(splitLine[3])
        #print name and average
        print(splitLine[0], " ", splitLine[1], (t1+t2)/2)
        #read next line
        line = infile.readline() # Read next line from file
     infile.close()
  else:
     print ("Failed to open file!")
main()
```