**Experiment-3.3**

**Program to demonstrate read and write data to the file in various modes.**

1. **Program to read and write data from a file.**

obj=open("abcd.txt","w") obj.write("Welcome to the world of Python") obj.close()

obj1=open("abcd.txt","r") s=obj1.read()

print s obj1.close()

obj2=open("abcd.txt","r") s1=obj2.read(20)

print s1 obj2.close()

**Output:**

**>>>**

**Welcome to the world of Python Welcome to the world**

**>>>**

1. **Program to illustrate append() mode**

file = open('geek.txt','a') file.write("This will add this line") file.close()

1. **Program to open the file in the read mode and use of for loop to print each line present in the file.**

# a file named "geek", will be opened with the reading mode. file = open('geek.txt', 'r')

# This will print every line one by one in the file for each in file:

print (each)

1. **Program to show various ways to read and write data in a file.**

file1 = open("myfile.txt","w")

L = ["This is Delhi \n","This is Paris \n","This is London \n"]

# \n is placed to indicate EOL (End of Line) file1.write("Hello \n")

file1.writelines(L)

file1.close() #to change file access modes file1 = open("myfile.txt","r+")

print "Output of Read function is " print file1.read()

print

# seek(n) takes the file handle to the nth # bite from the beginning.

file1.seek(0)

print "Output of Readline function is " print file1.readline()

print file1.seek(0)

# To show difference between read and readline print "Output of Read(9) function is "

print file1.read(9) print

file1.seek(0)

print "Output of Readline(9) function is " print file1.readline(9)

file1.seek(0)

# readlines function

print "Output of Readlines function is " print file1.readlines()

print file1.close()

**Output:**

**Output of Read function is Hello**

**This is Delhi This is Paris This is London**

**Output of Readline function is Hello**

**Output of Read(9) function is Hello**

**Th**

**Output of Readline(9) function is Hello**

**Output of Readlines function is**

**['Hello \n', 'This is Delhi \n', 'This is Paris \n', 'This is London \n']**

1. **Python program to illustrate Append vs write mode**

file1 = open("myfile.txt","w")

L = ["This is Delhi \n","This is Paris \n","This is London \n"] file1.close()

# Append-adds at last

file1 = open("myfile.txt","a")#append mode file1.write("Today \n")

file1.close()

file1 = open("myfile.txt","r")

print "Output of Readlines after appending"

print file1.readlines() print

file1.close()

# Write-Overwrites

file1 = open("myfile.txt","w")#write mode file1.write("Tomorrow \n")

file1.close()

file1 = open("myfile.txt","r")

print "Output of Readlines after writing" print file1.readlines()

print file1.close()

**Output:**

**Output of Readlines after appending**

**['This is Delhi \n', 'This is Paris \n', 'This is London \n', 'Today \n']**

**Output of Readlines after writing ['Tomorrow \n']**