1. Write code snippet to perform following operations on different types of files a. read file

```
file = open('read.txt', 'r')
for each in file:
    print (each)
file = open('read.txt', 'r')
print (file.read(5))
print("the current position of the cursor in the file is ", file.tell())
print ("the remaining lines is printed here\n", file.read())
```

Output:

hello this is my first file
this is a program to illustrate file operation in python
hello
the current position of the cursor in the file is 5
the remaining lines is printed here
this is my first file
this is a program to illustrate file operation in python

b. write to file.

```
with open('read2.txt', 'w') as f:
f.write("my first file\n")
f.write("This file\n\n")
f.write("contains three lines\n")
```

Output:

Goto to file named in program (read2.txt) & content is written there: my first file
This file
contains three lines

2a. Write code to perform file operations using dataframes on different file types

Output:

1.open the file called file1.csv
2.The following content will be written
,company,ceo,score
0,Google,SundarPichai,80
1,Microsoft,Satya Nadella,60

For this run the following command in terminal

2, Apple, Tim Cook, 70

3,Tata,Ratan Tata,90

```
3. Now write to following code in another file
import pandas
csvfile = pandas.read_csv('file1.csv')
print(csvfile)
Output:
 Unnamed: 0
               company
                                ceo
                                            score
0
       0
               Google
                           SundarPichai
                                             80
               Microsoft
1
       1
                           Satya Nadella
                                             60
2
       2
                           Tim Cook
                                             70
               Apple
3
       3
                           Ratan Tata
                                             90
               Tata
```

2b. Writing a program to write and read a file using Pandas (DataFrame to excel) For this run the following command in terminal

1.pip install xlwt

2. pip install openpyxl

import pandas as pd

Core_Dataframe = pd.DataFrame({'A': [1, 6, 11, 15, 21, 26],

'B': [2, 7, 12, 17.2334, 22, 27],

'C': [3, 8, 13, 18, 23.4523, 28], 'D': [4, 9, 14, 19, 24, 29],

'E': [5, 10, 15, 20, 25, 30]})

print(" THE CORE DATAFRAME ")

print(Core_Dataframe)

Core Dataframe.to excel(r"sample.xlsx", sheet name = 'testsheet',float format = "%.2f")

Output:

THE CORE DATAFRAME

Α В C D E

0 1 2.0000 3.0000 4 5

1 6 7.0000 8.0000 9 10

2 11 12.0000 13.0000 14 15

3 15 17.2334 18.0000 19 20

4 21 22.0000 23.4523 24 25

5 26 27.0000 28.0000 29 30

Sample.xslx sheet also created

