

ASSIGNMENT – 3 : Intro to Python-2

Sushruth V
171CO148

1) What's the ab+ mode?

It is a mode of opening a file for both appending and reading in binary format. If the file exists, the file pointer is moved to the end of the file, and the file opens in the append mode. If the file does not exist, a new file is created for reading and writing.

2) What's the point of a buffer while reading files?

The use of buffers increases the efficiency of the system by reducing the number of accesses to the file and the I/O device.

3) Write a small code snippet in which you handle more than two exceptions of your own choice.

```
try:
    fp=open("text_file.txt",'r+')
    str1="hellow"; str2="Good Morning"
    a=str1*str2
    while i<10
        print(i)
except IOError:
    print("Error: file does not exist or unable to read data")
except TypeError:
    print("Error: the datatype does not allow the operation")
except SyntaxError:
    print("Error: syntax of command is not correct")
else:
    print("Code is clean. Zero errors found")
```

4) Write a program to reverse the contents of the file.

```
import os
f=open("file.txt",'r')
f1=open("test.txt",'w+')
i=f.tell()
j=f.seek(0,2)
line=0
f.seek(0,0)
for i in range(j):
    c=f.read(1)
    if(c=='\n'):
        line+=1
```

```
f.seek(0,0)
i=0
str={}
for i in range(line):
    str[i]=f.readline()
    print(str[i],end="")
    i+=1
i-=1
while i>=0:
    print(str[i],end="")
    f1.write(str[i])
    i-=1
print(f1.read())
f1.close()
f.close()
```