AKTU B.Tech Second Year

PYTHON PROGRAMMING

UNIT 4

Python file operations

LEC-6

Today's Target

- **File program**
- **AKTU PYQs**

Gateway classes

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Seek()

In Python, seek() function is used to change the position of the File Handle to a given specific position. File handle is like a cursor, which defines from where the data has to be read or written in the file.

Syntax: *f.seek(offset, from_what), where f is file pointer*

Parameters:

Offset: *Number of positions to move forward*

from_what: *It defines point of reference.*

Returns: *Return the new absolute position.*

The reference point is selected by the from_what argument. It accepts three values:

0: sets the reference point at the beginning of the file

1: sets the reference point at the current file position

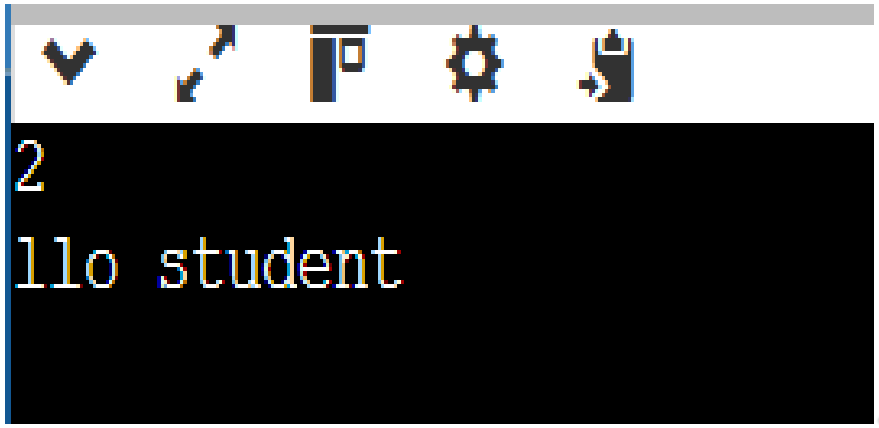
2: sets the reference point at the end of the file

By default from_what argument is set to 0.

Gateway classes

main.py example.txt

```
1  f = open("example.txt", "r")
2  f.seek(2)
3  print(f.tell())
4  print(f.readline())
5  f.close()
```



main.py example.txt

```
1  hello student
```

How do you use seek() to move write position to the beginning of file.

main.py example.txt

```
1  f = open("example.txt", "r+")
2  f.write("this isthe first line\n")
3  f.seek(0)
4  f.write("this is the new content\n")
5  f.seek(0)
6  content=f.read()
7  print(content)
8
9
```

main.py example.txt

```
1  this is the new content
2
```

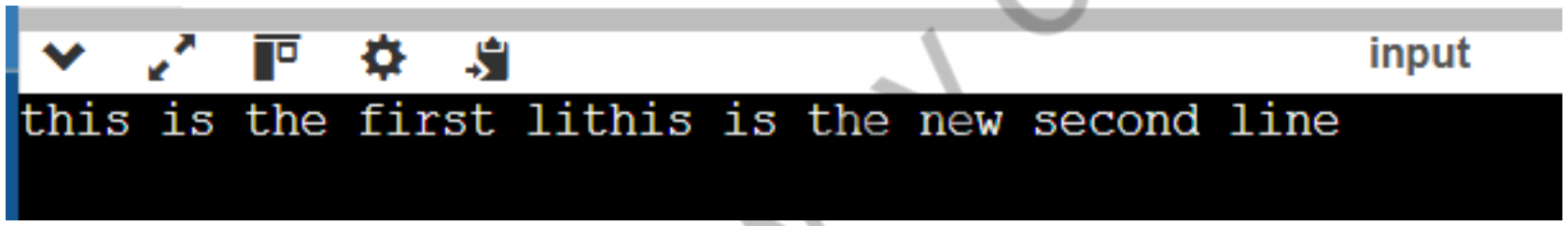


Gateway classes

How do you use seek() to reset the read/write position to specific location

main.py example.txt

```
1 with open("example.txt","r+")as file:
2     file.write("this is the first line\n")
3     file.write("this is te second line\n")
4     file.seek(20)
5     file.write("this is the new second line\n")
6     file.seek(0)
7     content=file.read()
8     print(content)
```



main.py example.txt

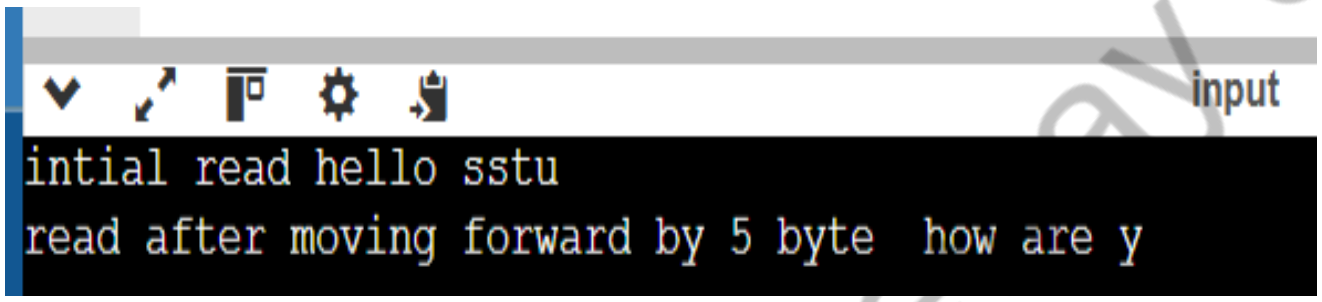
```
1 this is the first lithis is the new second line
2
```

Gateway classes

How do you use seek() to reset the read position relative to current position

main.py | example.txt

```
1 with open("example.txt","r+")as file:
2     print("intial read",file.read(10))
3     current_position=file.tell()
4     file.seek(current_position+5)
5     print("read after moving forward by 5 byte",file.read(10))
6
7
```



main.py | example.txt

```
1 hello sstudents how are you?
2 i an fine
3
```

Gate Academy classes

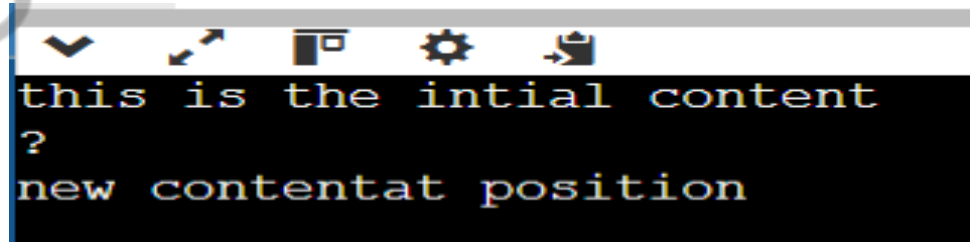
How do you use seek() to reset the write position relative to the current position

main.py example.txt

```
1  with open("example.txt","r+")as file:
2      file.write("this is the intial content\n")
3      file.seek(0,2)
4      end_position=file.tell()
5      file.seek(end_position-10)
6      file.write("new contentat position\n")
7      file.seek(0)
8      content=file.read()
9      print(content)
```

main.py example.txt

```
1  how are you
2   i am fine
3   hi students
4    bbytearray
5    hi
6
```



Gateway classes


Thank
you