

UIT2512---Operating Systems Practices Lab

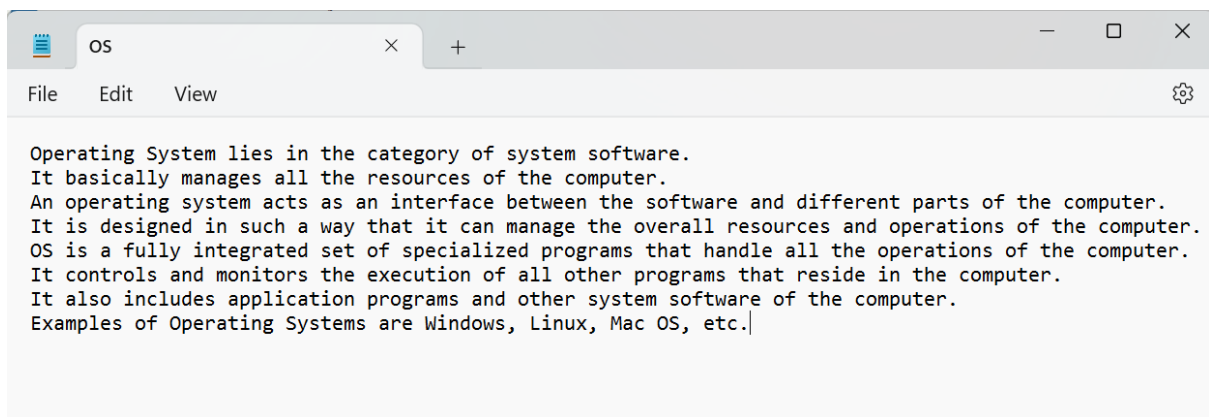
File Handling In Python - Open, Read, Write and Close Files In Python

Name: Vasundhara.B

Roll no: 3122 21 5002 119

- TO REPLACE A SPECIFIC LINE IN THE FILE

OS.txt

A screenshot of a text editor window. The window has a title bar with the text 'OS' and standard window controls (minimize, maximize, close). Below the title bar is a menu bar with 'File', 'Edit', and 'View'. The main text area contains the following text:

```
Operating System lies in the category of system software.  
It basically manages all the resources of the computer.  
An operating system acts as an interface between the software and different parts of the computer.  
It is designed in such a way that it can manage the overall resources and operations of the computer.  
OS is a fully integrated set of specialized programs that handle all the operations of the computer.  
It controls and monitors the execution of all other programs that reside in the computer.  
It also includes application programs and other system software of the computer.  
Examples of Operating Systems are Windows, Linux, Mac OS, etc.
```

CODE:

```
def replace_line(file, line, new_line):
```

```
    fh = open(file, 'r')
```

```
    content = fh.read()
```

```
    lines = content.split('\n')
```

```
    fh.close()
```

```
    if 0 < line <= len(lines):
```

```
        lines[line - 1] = new_line + '\n'
```

```
    content = ''.join(lines)
```

```
with open(file, 'w') as file:

    file.write(content)

    print(f"Line {line} replaced successfully.")

else:

    print(f"Invalid line number: {line}")

file = 'OS.txt'

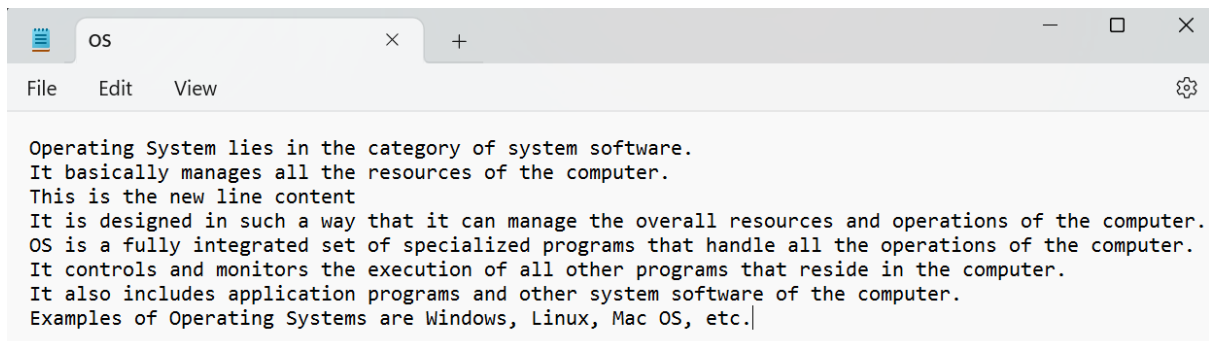
line_num = 3

new_line = "This is the new line content"

replace_line(file, line_num, new_line)
```

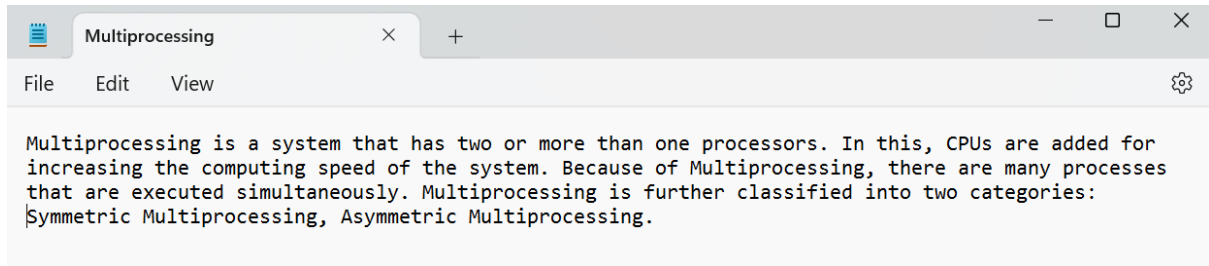
OUTPUT:

```
Line 3 replaced successfully.
PS C:\Users\B Vasundhara\Documents\OS>
```



- TO TRANSFORM THE CONTENTS IN A FILE TO UPPERCASE

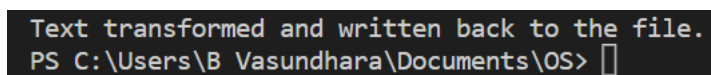
Multiprocessing.txt



CODE:

```
def transform_text(file):  
    fh = open(file, 'r')  
    content = fh.read()  
    fh.close()  
  
    transformed_content = content.upper()  
  
    fh = open(file, 'w')  
    fh.write(transformed_content)  
    fh.close()  
  
    print("Text transformed and written back to the file.")  
  
file = 'Multiprocessing.txt'  
transform_text(file)
```

OUTPUT:

A screenshot of a terminal window with a dark background. It shows the output of the script: 'Text transformed and written back to the file.' followed by a prompt 'PS C:\Users\B Vasundhara\Documents\OS>' and a cursor.

```
Text transformed and written back to the file.  
PS C:\Users\B Vasundhara\Documents\OS>
```

