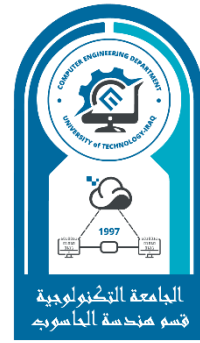




**University of Technology
Computer Engineering
Department**



Web programming LAB II

Lec (6)-Discussion

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Stage: المرحلة الرابعة

Branch: معلومات – صباحي

Discussion:

1- As programming concepts with open and create a file. It is better to close the file after you have finished working with it. Why?

Sol/ Closing files after using them is a good programming practice that promotes clean, efficient, and maintainable code.

And we have main reasons to close files:

1)Resource Management: When a file is open, the operating system allocates memory and other resources to it. If too many files remain open, it can impact system performance. Closing files frees up these resources.

2)File Descriptors (FDs): Every time you access a file (even for reading), you reduce the number of available file descriptors (FDs). Closing a handle releases it, making it available for other processes.

3)Race Conditions: If multiple processes or threads access the same file, leaving it unclosed can lead to race conditions. File locks may be in place to prevent conflicts.

4)Data Integrity: Properly closing files ensures data integrity. If you're reading a file and not closing it afterward, other applications may be denied access or unable to delete it.

5)Language-Specific Behavior: Some languages (like Python) automatically close handles that drop out of scope, but it's still good practice to explicitly close files

2- Write a program in PHP to create a file contains 5 short sentences then read each character and print it in a single line.

Sol/

```
<?php
```

```
$file = fopen("test5senten.txt", "w");  
fwrite($file, "This is the first sentence.\n");  
fwrite($file, "Second sentence follows.\n");  
fwrite($file, "Third sentence is here.\n");  
fwrite($file, "Fourth sentence is next.\n");  
fwrite($file, "Fifth sentence concludes.\n");
```

```
fclose($file);
```

```
  
$file = fopen("test5senten.txt", "r");  
if ($file) {  
    while (($char = fgetc($file)) !== false) {  
        echo $char;  
    }  
    fclose($file);  
} else {  
    echo "Error";  
}  
?>
```
