**Python Question**

**File Handling**

1. **How do you open a file for reading and writing in Python?**
2. **What is the difference between "r", "w", "r+", and "x+" modes in file operations?**
3. **How can you handle the case when a file does not exist while opening it?**
4. **How do you write a new line to a file and then read the updated content?**
5. **What is the purpose of [file.seek(0)](vscode-file://vscode-app/c:/Users/HOL/Downloads/VSCode-win32-x64-1.101.2/resources/app/out/vs/code/electron-sandbox/workbench/workbench.html" \o ") in file handling?**

**Functions**

1. **What are first-class functions in Python?**
2. **How can you pass a function as an argument to another function?**
3. **How do you define and call a function with multiple arguments?**
4. **What is a nested function? Give an example.**

**Loops**

1. **What is the difference between a for loop and a while loop in Python?**
2. **How do you avoid infinite loops in a while loop?**
3. **How does the break statement work in loops?**

**Error Handling**

1. **How do you handle exceptions in Python?**
2. **What is the use of try-except blocks?**
3. **How do you catch specific exceptions like [FileNotFoundError](vscode-file://vscode-app/c:/Users/HOL/Downloads/VSCode-win32-x64-1.101.2/resources/app/out/vs/code/electron-sandbox/workbench/workbench.html" \o ")?**

**Dictionaries**

1. **How can you use a dictionary to manage student names and grades?**
2. **How do you update a value in a dictionary?**
3. **How do you iterate over all items in a dictionary?**

**Modules**

1. **How do you import a module from a subdirectory in Python?**
2. **What is the purpose of the \_\_pycache\_\_ folder?**

**General Python**

1. **How do you take user input and use it in your program?**
2. **How do you print formatted strings in Python?**
3. **What is the difference between**[**read()**](vscode-file://vscode-app/c:/Users/HOL/Downloads/VSCode-win32-x64-1.101.2/resources/app/out/vs/code/electron-sandbox/workbench/workbench.html)**, [readline()](vscode-file://vscode-app/c:/Users/HOL/Downloads/VSCode-win32-x64-1.101.2/resources/app/out/vs/code/electron-sandbox/workbench/workbench.html" \o "), and [readlines()](vscode-file://vscode-app/c:/Users/HOL/Downloads/VSCode-win32-x64-1.101.2/resources/app/out/vs/code/electron-sandbox/workbench/workbench.html" \o ") methods for files?**