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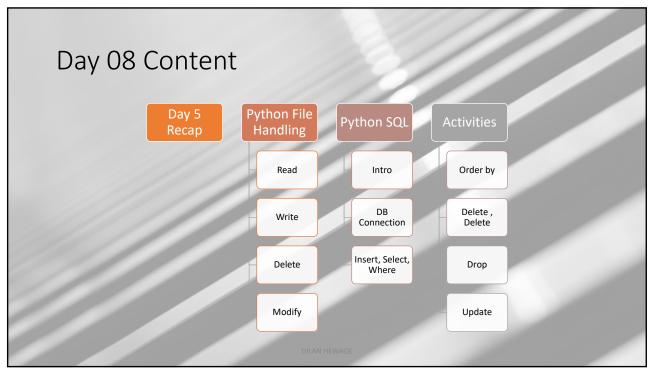
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Algorithm Development & Python Programming

Workshop Day - 8

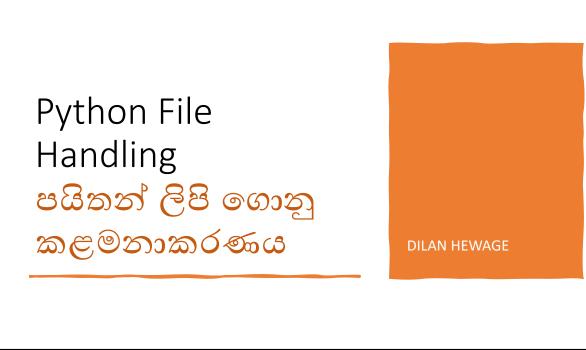
DILAN HEWAGE

BIT – University of Colombo / CIDM – APIDM Founder of WiTeds Solutions Co-Founder of Print Arcade



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Python File Handling

- File handling is an important part of any web application.
- Python has several functions for creating, reading, updating, and deleting files.
- The key function for working with files in Python is the open() function.
- The open() function takes two parameters; filename, and mode.

There are four different methods (modes) for opening a file:

- "r" Read Default value. Opens a file for reading, error if the file does not exist
- "a" Append Opens a file for appending, creates the file if it does not exist
- "w" Write Opens a file for writing, creates the file if it does not exist
- "x" Create Creates the specified file, returns an error if the file exists

In addition you can specify if the file should be handled as binary or text mode $% \left(1\right) =\left(1\right) \left(1\right)$

- "t" Text Default value. Text mode
- "b" Binary Binary mode (e.g. images)

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Python File Handling contd.

• To open a file for reading it is enough to specify the name of the file:

f = open("demofile.txt")

• The code above is the same as:

f = open("demofile.txt", "rt")

- Because "r" for read, and "t" for text are the default values, you do not need to specify them.
- Note: Make sure the file exists, or else you will get an error.

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- "t" Text Default value. Text mode
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Python SQL

- Python can be used in database applications.
- One of the most popular databases is MySQL.
- To be able to experiment with the code examples in this tutorial, you should have MySQL installed on your computer.
- Python needs a MySQL driver to access the MySQL database.

import mysql.connector

mydb = mysql.connector.connect(
host="localhost",
user="yourusername",
password="yourpassword"

print(mydb)

Download and install "MySQL Connector":

C:\Users\Your Name\AppData\Local\Programs\Python\Python36-32\Scripts>python -m pip install mysql-connector-python

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