Python Scripts

This script focuses on using the os library in Python, which is designed for interacting with the operating system. It demonstrates tasks such as creating directories and files, changing paths, and checking the current working directory. Let's explore some basic tasks that can be performed using the os library.

import os

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def current_working_dir():

   # Current working directories as getcwd

   dir = os.getcwd()

   # in Print statement f is used to insert dynamically result
or variable

   print(f"Current Working directories: {dir}")

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def create_new():

   new = "Demo"

   # Directory name should always be in ' '

   os.makedirs('new')

   print("Successfully created Directories....")

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def change():

   path = "/home/amitt-ashok/"
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    os.chdir(path)

    print(f"Current working dir is {os.getcwd()}")

    os.removedirs('raja')

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def list_dir():

    path = "/home/amitt-ashok/Downloads"

    os.chdir(path)

    current = os.getcwd()

    file_and_dir = os.listdir()

    for item in file_and_dir:

        print(f"Directories and Files are: {item}")

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 # Create Directories inside Directory

def create_dir():

    os.makedirs('raja/rani', exist_ok=True)

    print("Created successfully")

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def new_file():

    with open('sample.txt', 'w') as f:

        f.write('Hello')

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def remove_file():

    os.remove('sample.txt')
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    print("file removed successfully..")

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def put_env():

    os.putenv('name', 'amitt')

    print("name:", os.getenv('name'))

    os.putenv('MY_VAR', '1234')

    print("MY_VAR:", os.getenv('MY_VAR'))

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# Path Manipulation

def path_editor():

    working_dir = os.getcwd()

    print("Current working dir :", working_dir)

    file_name = "demo.txt"

    # here file_name will add with working directory path

    file_path = os.path.join(working_dir, file_name )

    print("Full file path is :", file_path)

    if not os.path.isfile(file_path):

        with open (file_path, 'w') as f:

            f.write('Hello, World')

    print(f"File exist: {os.path.isfile(file_path)}")

    # Result is True

    print(f"Dir Exist: {os.path.isdir(file_path)}")

    # result is False
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def system_editor():

   # use for system related informations

   os.system('echo "Hello From Amitt Ashok"')

   print(f"Process ID {os.getpid()}")

   print(f"Get Login in user {os.getlogin()}")

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def permission_file():

   file_name = "demo.txt"

   with open(file_name, 'w') as f:

       f.write('I am living awesome Life')

   os.chmod(file_name, 0o777)

   print(f"Permission changed {file_name}")
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