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# Main-Script
#
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# This python script automatically launches all other python scripts in the
# right order and computes the entire task.

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# Import of Libraries
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# import math as m
# import numpy as np
# import string as st
# import random as r
# import re
import os
import platform


# Project-Settings
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# These settings affect how the executed scripts below will compute the data.
# Changing these values may increase execution-time significantly or allowes
to
# change the computed input or output.

# These are the datasets that will be used for the computation.
datasets = [{"filename": "rps25_synch.txt","delimiter": ";","split_column": 0,
"profiles": 1143, "left": [2400, 2600], "right": [7900, 8100], "top": [4900,
5100], "sample_rate": 25},
            {"filename": "rps50_synch.txt","delimiter": ";","split_column": 0,
"profiles": 2124, "left": [4400, 4600], "right": [16000, 16200], "top": [9900,
10100], "sample_rate": 50}]


# Functions
#
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def __run_script(script_name):
    """
    This function executes python scripts via the command line.

    Args:
        script_name (str): name of the python script (eg: "demo.py")
    """
    if(platform.system() == "Linux"):
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        print(f'[INFO] Executing "{script_name}" as Linux-User')
        os.system(f'python3 {script_name}')  # Run on Linux
    elif(platform.system() == "Windows"):
        user = os.environ.get('USERNAME')
        print(f'[INFO] Executing "{script_name}" as Windows-User "{user}"')
        os.system(f'C:/Users/{user}/anaconda3/python.exe {script_name}')  # Run on Windows


def terminate():
    """
    This function terminates the program.
    """
    print("[INFO] The program has been terminated.")
    exit()


# Classes
#-------------------------------------------------------------------------------


# Beginning of the programm
#-------------------------------------------------------------------------------

if __name__ == '__main__':
    os.makedirs("data_raw", exist_ok=True)
    __run_script("profiles_split.py")
    __run_script("profiles_analyse.py")
    print("[INFO] All calculations have ended.")

```