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# Main-Script
#
#####

# 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 string as st
# import random as r
# import re
import os
import platform

from sklearn import datasets

#
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# Debugging-Settings

verbose = True # Shows more debugging information

#
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# Project-Settings

# These settings affect how the executed scripts below will compute the data.
# Changing these values may increase execution-time significantly or allows
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):
    """

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50     This function executes python scripts via the command line.
51
52     Args:
53         script_name (str): name of the python script (eg: "demo.py")
54     """
55     if(platform.system() == "Linux"):
56         if(verbose):
57             print(f'[INFO] Executing "{script_name}" as Linux-User')
58             os.system(f'python3 {script_name}') # Run on Linux
59     elif(platform.system() == "Windows"):
60         if(verbose):
61             print(f'[INFO] Executing "{script_name}" as Windows-User')
62             user = os.environ.get('USERNAME')
63             os.system(f'C:/Users/{user}/anaconda3/python.exe {script_name}') #
64             Run on Windows
65
66 # Classes
67 #
68 -----
69
70 # Beginning of the Programm
71 #
72 -----
73 if __name__ == '__main__':
74     os.makedirs("data_raw", exist_ok=True)
75     __run_script("profiles_split.py")
76     __run_script("profiles_analyse.py")
77     print("[INFO] All calculations have ended.")
78

```