VDAC - ROHITHMISSION- 2022H2

Date: 15th Sep 2022

Created: SMR

Command: tasklist

Displays a list of currently running processes on the local computer or on a remote computer. Please find below is the screenshot for your reference

Image Name	PID	Session Name	Session#	Mem Usage
======================================	======= = a	Services	: ======== = 0	8 K
System		Services	9	3,020 K
Registry		Services	9	53,268 K
smss.exe		Services	9	488 K
srss.exe		Services	9	3,032 K
vininit.exe	996	Services	0	3,700 K
services.exe	864	Services	0	10,760 K
lsass.exe	656	Services	0	27,388 K
svchost.exe	1128	Services	0	55 , 136 K
fontdrvhost.exe	1156	Services	0	992 K
WUDFHost.exe	1188	Services	0	3,156 K
svchost.exe	1324	Services	0	28,300 K
svchost.exe	1380	Services	0	6,220 K
NUDFHost.exe	1476	Services	0	5,324 K
sychost eve	1612	Sanvices	a	6 308 V

Task:

Step1:

Write a program, run the above command(**tasklist**) by using subprocess module and process the command output and finally display the program output as a dictionary where the **service names** (Image Name) are the dictionary keys and respective **PID'**s are the dictionary values.

Expected Output Structure:

```
{"System Idle Process": 0,

"System": 4,

"Registry": 124,

|

|

"svchost": 1612
```

Step2:

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Define a function with the name **filter_services and** that can take two parameters and **returns** a dictionary.

The first parameter is the dictionary contains the service names are the keys and respective PIDs are the values. And the second parameter should be the search string that can service starts with. The function should return a dict with filtered service names along with their PIDs.

The below is the template for the function prototype:

```
def filter_services(dict_all_services, service_start_with):
    filtered_dict = {}
    # Write your logic
    return filtered dict
```

Note: The dictionary dict all services is the dictionary that you generated from step1.

<u>Step3:</u> Define a function to return all running services (by using the tasklist command)

<u>Step4</u>: Define a function that should return a dictionary and which contains all the service names and the respective memory usage of each service.

<u>Step5:</u> Define a function that should take the service name as the parameter and returns the memory in MB.

<u>Step6:</u> Define a function that should take a service name as the parameter and that should return the PID of the service

Step7: Define a function, that should take PID as the parameter and returns the service name

Step8: Write a function return True if the service starts with a given character.

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