Computer CPU usage calculator python project

Hello everybody

 welcome back to this python project

In this python project we write a python program which helps us to see our computer or laptop CPU usage.

This is also one of the basic real world use Case python projects you need to know as a python programmer.

This python program is all about getting the percentage of our computer CPU Usages within some interval of time.

The main aim This python program retrieves the CPU usage of the computer.

So, now we can start this python project by using PyCharm python IDE,

Most of the time I use PyCharm python IDE,

So, for this project I also use PyCharm.

Ok, I open and start it

To start this python project first I create a new python file

For that,

I click file

Then

Click new and select python file

Like this

After that it askes me to give the file name

I give the name

CPU Usage

You can give any name

For this python project I give this name

After that when I click inter, it creates a blank new page.

Ok, now I start importing important python module for this python project.

As we say before

In this python project we need to retrieve our computer or laptop CPU usage, for that I need to use

Psutil python module

This psutil python module is used to retrieve our running computer processer,

For that I use this psutil python module

And psutil python module is not built-in python module, so before importing to your project you need to install it.

Ok, to install this python module you can use PyCharm python IDE itself.

So, at the bottom of PyCharm python IDE there is a terminal section and when you click this terminal

It opens your python project file path

And after that you need to write

Pip install psutil

To install this python module, you need to write this

Pip install psutil

After that when you hit inter, it starts downloading and after that it installs to your python interpreter.

Ok, now after you install it you can import to your python project.

For me I already install it before,

So, now I can import it by writing

Import psutil

Like this

After installation you can import like this

```python
import psutil
```

Ok, after you import this important python module

First, I want to see how many CPU counts I have in this computer.

First, I want to check this

For that I write

CPU = psutil.cpu_count()

I use this cpu_count() function to get the number of CPUs running on my computer.

And to see this numbers

I write

Print()

And I pass CPU inside this print function.

```
Cpu = psutil.cpu_count()
print(Cpu)
```

Ok now when I run this program it shows me

The number of CPUs

Ok now

I want to get the usage of this CPU in every seconds.

For that

I use while loop

I want to use this while loop to run this program infinitely

So

While true:

And inside this while loop

I want to get the percentage of this computer CPU

For that I write

CPU_Percent = psutil.cpu_percent()

And I pass 1

That means I want to get the percentage every second,

```python
while True:
    CPU_Percent = psutil.cpu_percent(1)
```

If you want to get for example in every 2 seconds you can write 2

Or if you want to get every 1 minutes you write

60 that means every 60 seconds

For this project I want to get the usage of computer CPU every second.

Ok

To see the resalt

Now I print this CPU_Percent variable

So, print(CPU_Persent)

Like this inside this while loop

```python
# Calculate CPU Usage of Your Computer
import psutil

Cpu = psutil.cpu_count()
print(Cpu)
while True:
    CPU_Percent = psutil.cpu_percent(1)
    print(CPU_Percent)
```

And now I will run this program to see how this works

And as you see it shows the usage of this computer CPU every second.

Ok, this python project is all about how to retrieve our computer processer functionality by using python programing language.

I think you get some important concept in this python project

Thank for watching

I will see you in the next video

Thanks again!!

!!! Full Code Looks Like This!!!

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Cpu = psutil.cpu_count()
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```

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