

WEEK6: Assignment-2-Numpy


In []: Q1.Data science problem on Read,split and save Data process

In the Data Science project, the one Big "climate.txt" Data file wants to be split into ten different commas separated value files (.csv) and then assign this file to ten Data analytics Team members for further analysis. you try to help them to write the Python code using the NumPy package and produce successful output.

Note:
file_url='https://raw.githubusercontent.com/svkarthik86/Advanced-python/main/climate.txt'
step1: Read the txt file climate.txt
step2:split the climate.txt into ten array
step3:create new directory as climate_project
step4:store the all ten file like climate_data_team1.csv to climate_data_team10.csv , into climate_project directory
SAMPLE OUTPUT:

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Files Running Clusters

Select items to perform actions on them. Upload New ▾ 

<input type="checkbox"/> 0 ▾	📁 / Assignment / climate_project	Name ▾	Last Modified	File size
	📁 ..		seconds ago	
<input type="checkbox"/>	📄 climate_data_team1.csv		a minute ago	10.1 kB
<input type="checkbox"/>	📄 climate_data_team10.csv		a minute ago	10.1 kB
<input type="checkbox"/>	📄 climate_data_team2.csv		a minute ago	10.1 kB
<input type="checkbox"/>	📄 climate_data_team3.csv		a minute ago	10.1 kB
<input type="checkbox"/>	📄 climate_data_team4.csv		a minute ago	10.1 kB
<input type="checkbox"/>	📄 climate_data_team5.csv		a minute ago	10.1 kB
<input type="checkbox"/>	📄 climate_data_team6.csv		a minute ago	10.1 kB
<input type="checkbox"/>	📄 climate_data_team7.csv		a minute ago	10.1 kB
<input type="checkbox"/>	📄 climate_data_team8.csv		a minute ago	10.1 kB
<input type="checkbox"/>	📄 climate_data_team9.csv		a minute ago	10.1 kB

In []: import numpy as np

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file_url='https://raw.githubusercontent.com/svkarthik86/Advanced-python/main/climate.txt'
data=np.genfromtxt(file_url, delimiter=',', skip_header=1)
splited_data=np.split(data,10)
data_header=np.genfromtxt(file_url,delimiter=',',dtype="U")[0]
data_header=",".join(data_header)
count=1
for i in splited_data:
    np.savetxt(f"Assignment/climate_project/climate_data_team{count}.csv",i,delimiter=',',fmt="%d",header=data_header )
    count+=1
```

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<input type="checkbox"/>	📄 climate_data_team2.csv		seconds ago	10.1 kB
<input type="checkbox"/>	📄 climate_data_team3.csv		seconds ago	10.1 kB
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In []: