import random

import pandas as pd

# Generate synthetic HPC job data

jobs = []

for i in range(100):

job = {

"JobID": i + 1,

"CPU": random.randint(1, 32),

"Memory": random.randint(1, 128), # in GB

"Runtime": random.randint(10, 1000), # in seconds

"Priority": random.choice(["High", "Medium", "Low"])

}

jobs.append(job)

df = pd.DataFrame(jobs)

df.to\_csv("synthetic\_hpc\_data.csv", index=False)

print(df)