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import csv

# Function to read CSV file
def read_csv(filename):
    students = []

    with open(filename, newline='') as csvfile:
        reader = csv.DictReader(csvfile)
        for row in reader:
            students.append((row['Name'], int(row['Marks'])))

    return students

# Function to draw bar chart
def draw_bar_chart(data):
    print("Student Marks Visualization\n")
    max_name_len = max(len(name) for name, _ in data)
    max_mark = max(mark for _, mark in data)

    for name, mark in data:
        bar = '█' * (mark * 50 // max_mark)
        print(f"{name.ljust(max_name_len)} | {bar} {mark}")

# Main section
if __name__ == "__main__":
    students = read_csv("students.csv")
    draw_bar_chart(students)

docker build -t chart-calculator .
docker run -it chart-calculator

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import time

print("Starting CPU-intensive task...")

start = time.time()

# Run a CPU-heavy loop for ~30 seconds
while time.time() - start < 30:
    x = 0

    for i in range(1000000):
        x += i * i

print("Task completed!")

-> FROM python:3.10-slim
    WORKDIR /app
    COPY cpuload.py .
    CMD ["python", "cpuload.py"]

-> docker build -t cpu-delay .

-> docker run cpu-delay

-> docker run --cpus=".5" cpu-delay

-> htop

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