Python programming Lab(23CP301P)

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Division: VII Batch G13

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LAB2:

Experiment No: 2

CSV File Handling and Basic Operations

Objective: To write a Python program that reads student grades from a CSV file, calculates the average score for each student, and writes the result into a new CSV file. The program will demonstrate effective CSV file manipulation and the use of functions for modular and reusable code.

Code:

```python
import csv

with open("student_grades.csv", "r") as file:
    reader = csv.reader(file)
    next(reader)  # Skip header
    data = list(reader)

averages = {}
for row in data:
    name = row[0]
    scores = list(map(float, row[1:]))
    avg = round(sum(scores) / len(scores), 2)
    averages[name] = avg

with open("student_average_grades.csv", "w", newline="") as file:
    writer = csv.writer(file)
    writer.writerow(["Name", "Average"])
    for name, avg in averages.items():
        writer.writerow([name, avg])
```

```
print("Done! 'student_average_grades.csv' created.")
```

Output:

```
[Running] python -u "c:\Users\Admin\OneDrive\Desktop\python\lab2.py"
Done! 'student_average_grades.csv' created.

[Done] exited with code=0 in 0.066 seconds
```

lab2.py
student_average_grad...
student_grades.csv

Name,Average

Alice,84.33

Bob,75.0

Charlie,90.67

David,65.0

Eva,88.33