## **Ad.Python Practical**

5. Process Result.txt file having data in the format (Format: EnrollmaentNumber, Name, Sub1 marks, Sub2\_Marks, Sub3\_marks, sub4\_Marks) and generate analysis in following format a. Print Marksheet ( Design your own format) b. Generate Student Summary (Enrollment Number, Name, Marks Obtained, Pass/Fail) c. Grade wise Summary # Define a function to calculate grades based on marks def calculate\_grade(marks): if marks >= 90: return 'A+' elif marks >= 80: return 'A' elif marks >= 70: return 'B' elif marks >= 60: return 'C' elif marks >= 50: return 'D' else: return 'F' # Read data from Result.txt file with open('Result.txt', 'r') as file: lines = file.readlines() # Process data and generate results for line in lines: data = line.strip().split(',')

enrollment\_number, name, sub1\_marks, sub2\_marks, sub3\_marks, sub4\_marks = data

# Convert marks to integers

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```
sub1_marks, sub2_marks, sub3_marks, sub4_marks = map(int, [sub1_marks,
sub2_marks, sub3_marks, sub4_marks])
# Calculate total marks and grade
total_marks = sub1_marks + sub2_marks + sub3_marks + sub4_marks
grade = calculate_grade(total_marks)
# Print Marksheet
print(f"Enrollment Number: {enrollment_number}")
print(f"Name: {name}")
print(f"Subject 1 Marks: {sub1_marks}")
print(f"Subject 2 Marks: {sub2_marks}")
print(f"Subject 3 Marks: {sub3_marks}")
print(f"Subject 4 Marks: {sub4 marks}")
print(f"Total Marks: {total_marks}")
print(f"Grade: {grade}")
print("=" * 100)
# Generate Student Summary
result = "Pass" if grade != 'F' else "Fail"
print(f"Enrollment Number: {enrollment_number}")
print(f"Name: {name}")
print(f"Marks Obtained: {total_marks}")
print(f"Result: {result}")
print("=" * 100)
# Grade wise Summary
grade_summary = {'A+': 0, 'A': 0, 'B': 0, 'C': 0, 'D': 0, 'F': 0}
for line in lines:
```

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```
data = line.strip().split(',')

__, _, sub1_marks, sub2_marks, sub3_marks, sub4_marks = data
sub1_marks, sub2_marks, sub3_marks, sub4_marks = map(int, [sub1_marks, sub2_marks, sub3_marks, sub4_marks])
total_marks = sub1_marks + sub2_marks + sub3_marks + sub4_marks
grade = calculate_grade(total_marks)
grade_summary[grade] += 1
print("Grade Wise Summary:")
for grade, count in grade_summary.items():
    print(f"Grade {grade}: {count}")
```