DESIGN A PYTHON TO CALCULATE AND SUMMARIZE STUDENT MARK AND GRADE USING BASIC PROGRAMMING CONCEPT.

EXPLANATION OF THE CODE :

. INPUT DATA (STUDENT_DATA):

. I'VE CREATED A SAMPLE STUDENT _DATA DICTIONARY .IN A REAL APPLICATION , YOUR MIGHT USE INPUT() TO GET DATA FROM THE USER ,OR MORE COMMONLY,READ IT FROM FILE (E.G,CSV FILE USING

. INDIVIDUAL STUDENT CALCULATION

- THE CODE ITERATES THROUGH EACH STUDENT IN THE STUDENT _DATA DICTIONARY.
- IT CALCULATES TOTAL_MARK BY SUMMING THE MARK FOR EACH STUDENT.
- AVERAGE_MARK IS CALCULATED BY DIVIDING TOTAL_MARK BY THE NUMBER OF SUBJECT.
- GRADE ASSIGNMENT: A SIMPLE IF -ELIF -ELSE STRUCTURE ASSIGNS A LATTER GRADE BASED ON THE AVERAGE MARK .YOU CAN ADJUST THE THRESHOLD

. CLASS SUMMARY CALCULATION:

- TOTAL _STUDENT:USES LEN(STUDENT_DATA)TO GET THE COUNT STUDENT
- CLASS_TOTAL_MARK: SUMS UP THE TOTAL MARKS OF ALL STUDENTS.
- CLASS_AVERAGE:CALCULATE THE OVERALL CLASS AVERAGE.NOTE THIS AVERAGE IS BASED ON THE TOTAL MARKS OBTAINED BY ALL STUDENTS DIVIDED BY THE TOTAL PASSIBALE MARK ACROSS ALL STUDENT ALL SUBJECT.
- CLASS_AVG_PER_SUBJECT: CALCULATES THE AVERAGE SCORE FOR EACH OF YHE 3 SUBJECT ACROSS THE ENTIRE CLASS.

. OUTPUT:

- THE PRINT() STATEMENT ARE FORMATTED TO DISPLAY THE “EXPECTED OUTPUT” AS CLOSELY AS POSSIBLE_AVERAGE.
- INDIVIDUAL STUDENT DETAIL (NAME ,MARK ,TOTAL ,AVERAGE ,GRADE).
- CLASS SUMMARY (TOTAL STUDENT,CLASS AVERAGE ,AVERAGE PER SUBJECT).
- CLASS TOPPER.