

grade calculator- input student scores and calculate averages and grades automatically

Objective:

To develop an interactive and automated Excel sheet that can:

Take student scores as input

Calculate the average of marks

Assign grades based on performance

Generate a clean and easy-to-read grade report

✂ Tools & Software Used:

Microsoft Excel (or Google Sheets)

Basic Excel functions:

AVERAGE()

IF() nested function for grading logic

Cell referencing and formatting

📋 Methodology:

Table Structure Created:

Columns: Name, Subject 1, Subject 2, Subject 3, Subject 4, Average, Grade

Rows: 30 students' records

Data Input:

Marks were entered for each subject manually or using random data generation.

Average Calculation:

Formula used:

=AVERAGE(B2:E2)

(for each student to compute the average score)

Grade Assignment Logic:

Applied using nested IF() functions:

excel

Copy code


=IF(F2>=90,"A+",IF(F2>=80,"A",IF(F2>=70,"B",IF(F2>=60,"C",IF(F2>=50,"D","F")))))

Formatting:

Applied cell borders, alignment, and conditional formatting (optional)

Headers highlighted for clarity

Data organized in a tabular format

 Outcomes:

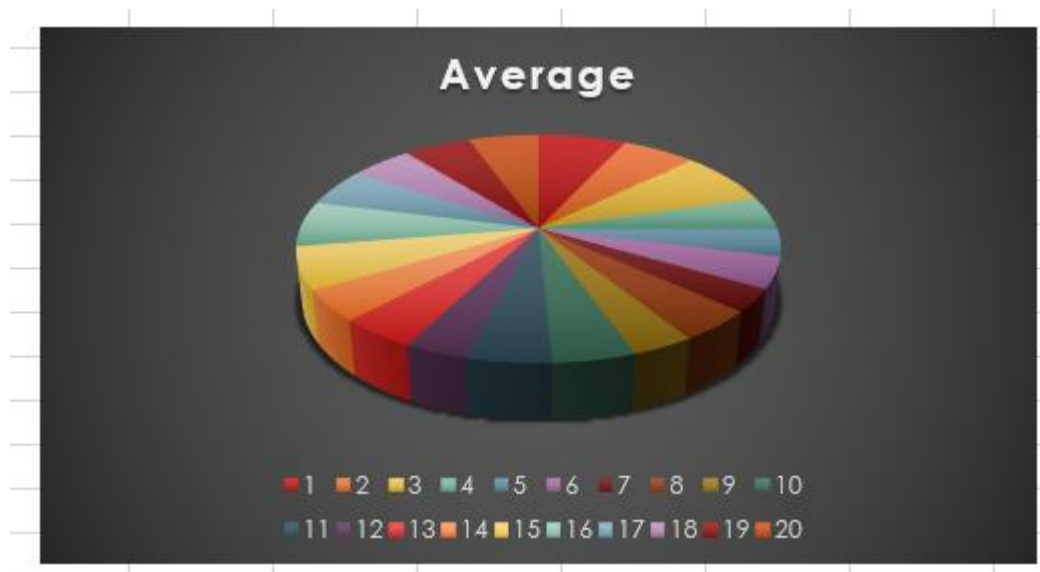
Successfully automated the grading process for 30 students.

Reduced manual effort and errors in calculating results.

Easy to update for more students or subjects.

Add header

Grade Calculator-input student scores and calculate averages and grades automatically							
Name	Maths	English	Science	Hindi	Average	Grade	
Aarav	84	90	76	88	84.5	A	
Zavain	72	67	74	70	70.75	B	
Ivaan	93	89	95	91	92	A+	
Reyansh	58	60	55	52	56.25	D	
Ayaan	45	48	50	46	47.25	F	
Vihaan	48	9	67	88	53	D	
Kian	27	76	47	7	39.25	F	
Rian	39	98	59	19	53.75	D	
Ehan	85	6	55	25	42.75	F	
Yuvaan	54	84	26	64	57	D	
Kiara	66	43	45	78	58	D	
Myra	45	40	34	56	43.75	F	
Anaya	78	80	23	34	53.75	D	
Ira	67	23	67	56	53.25	D	
Ziya	34	90	89	78	72.75	B	
Aarna	56	78	78	98	77.5	B	
Avni	98	43	97	23	65.25	C	
Saani	45	56	68	67	59	D	
Inaya	76	67	58	56	64.25	C	
Meher	89	78	35	67	67.25	C	



Clear visualization of performance through color-coded cells (optional).

#### ✦ Conclusion:

This project demonstrates the power of Excel as a tool for automation and data analysis. The Grade Calculator is useful in schools, coaching centers, and universities to efficiently manage student results.

#### 🚧 Future Scope:

Adding visual charts for performance trends.

Creating a dashboard with pass/fail summary.

Linking to macros or VBA for enhanced automation.

Adding options for different grading systems (e.g., CGPA or percentage-based).