Practical 13: **Excel Student Result Management**

Aim:
    To analyze student marks using Excel tools.
Objectives:
    • To apply Excel formulas
    • To create charts

Materials Required:
    • MS Excel

Procedure:
    1. Enter student data – Input students' names, marks, and other required details into the spreadsheet.

    2. Use Flash Fill – Apply Flash Fill to automatically complete patterns such as separating names or formatting data.

    3. Replace incorrect values – Identify errors and use Find & Replace or manual correction to fix inaccurate entries.

    4. Calculate pass/fail using IF – Create an IF formula to determine whether each student passes or fails based on their score.

    5. Use COUNTIF and AVERAGE – Apply COUNTIF to count specific results and AVERAGE to compute the class's mean score.

    6. Create charts – Generate visual charts to represent student performance trends or score distributions.

    7. Apply conditional formatting – Use color-based formatting to highlight important values, such as low scores or top performers.

~OUTPUT~

Student_data

Name	Roll No	Class	City	Subj1	Marks1	Subj2	Marks2	Subj3	Marks3	Total Marks	First Name	Last Name	Pass/Fail	count(belong to delhi)	Pass/Fail2	Counts
Rahul Verma	1	9	delhi	Math	78	Science	82	English	75	235	Rahul	Verma	pass	3	Pass	13
Neha Sharma	2	9	Jaipur	English	85	History	80	Science	88	253	Neha	Sharma	pass		Fail	2
Aman Khan	3	9	Lucknow	Math	90	Computer	92	Science	86	268	Aman	Khan	pass			
Pooja Patel	4	9	Surat	Math	50	English	10	Hindi	40	100	Pooja	Patel	fail			
Suresh Das	5	9	delhi	Science	88	Math	84	Geography	79	251	Suresh	Das	fail			
Ankit Singh	6	9	Patna	Math	60	Science	10	English	20	90	Ankit	Singh	fail			
Riya Gupta	7	9	Noida	Math	92	Science	89	Computer	94	275	Riya	Gupta	pass			
Mohit Jain	8	9	Indore	Math	81	English	77	Science	85	243	Mohit	Jain	pass			
Sneha Iyer	9	9	Chennai	Science	90	Math	88	English	91	269	Sneha	Iyer	pass			
Karan Malhotra	10	9	Chandigarh	Math	74	Science	79	Computer	82	235	Karan	Malhotra	pass			
Aditi Rao	11	9	Bengaluru	English	86	History	83	Science	88	257	Aditi	Rao	pass			
Nikhil Pawar	12	9	Pune	Math	89	Science	91	Geography	87	267	Nikhil	Pawar	pass			
Simran Kaur	13	9	delhi	English	80	Punjabi	85	Science	78	243	Simran	Kaur	pass			
Arjun Mehta	14	9	Mumbai	Math	93	Science	90	English	92	275	Arjun	Mehta	pass			
Kavya Nair	15	9	Kochi	Science	87	Math	84	English	89	260	Kavya	Nair	pass			

Marks_Analysis

Name	Roll No	Class	City	Subj1	Marks1	Subj2	Marks2	Subj3	Marks3	Average	Min	Max
Rahul Verma	1	9	delhi	Math	78	Science	82	English	75	78	75	82
Neha Sharma	2	9	Jaipur	English	85	History	80	Science	88	84	80	88
Aman Khan	3	9	Lucknow	Math	90	Computer	92	Science	86	89	86	92
Pooja Patel	4	9	Surat	Math	50	English	10	Hindi	40	33	10	50
Suresh Das	5	9	delhi	Science	88	Math	84	Geography	79	84	79	88
Ankit Singh	6	9	Patna	Math	60	Science	10	English	20	30	10	60
Riya Gupta	7	9	Noida	Math	92	Science	89	Computer	94	92	89	94
Mohit Jain	8	9	Indore	Math	81	English	77	Science	85	81	77	85
Sneha Iyer	9	9	Chennai	Science	90	Math	88	English	91	90	88	91
Karan Malhotra	10	9	Chandigarh	Math	74	Science	79	Computer	82	78	74	82
Aditi Rao	11	9	Bengaluru	English	86	History	83	Science	88	86	83	88
Nikhil Pawar	12	9	Pune	Math	89	Science	91	Geography	87	89	87	91
Simran Kaur	13	9	delhi	English	80	Punjabi	85	Science	78	81	78	85
Arjun Mehta	14	9	Mumbai	Math	93	Science	90	English	92	92	90	93
Kavya Nair	15	9	Kochi	Science	87	Math	84	English	89	87	84	89

Charts

Bar chart titled "Marks3" with categories: English, Science, Science, Hindi, Geography, English, Computer, Science, English, Computer, Science, Geography, Science, English, English (series: Marks3).

Pie chart titled "Counts" with segments: Pass, Fail.