

## Experiment No. 1.1

**Student Name:** Parvinder Singh

**UID:** 22MCC20043

**Branch:** MCA - CCD

**Section/Group:** 22MCD-1/ Grp B

**Semester:** III

**Subject Name:** Business Analytical Lab

**Subject Code:** 22CAH-703

### 1. Aim/Overview of the practical:

- a) Formatting the worksheet using logical formula IF Statement, Nested IF, AND, OR, NOT, IFERROR, SUMIF, AVERAGEIF, COUNTIF and AVERAGEIF)
- b) Create and apply formulas as per user requirements.

|    | A               | B       | C       | D  | E    | F       | G            | H          |
|----|-----------------|---------|---------|----|------|---------|--------------|------------|
| 1  | Name            | Roll No | English | IT | Math | Physics | Chemistry    | Total      |
| 2  | Krishan Rana    | 1       | 75      | 71 | 67   | 85      | 83           | 381        |
| 3  | Sagar Thakur    | 2       | 85      | 46 | 69   | 45      | 52           | 297        |
| 4  | Gurpreet Singh  | 3       | 62      | 52 | 83   | 58      | 68           | 323        |
| 5  | Ajay Kumar      | 4       | 0       | 42 | 0    | 32      | 12           | 86         |
| 6  | Manvi Sharma    | 5       | 51      | 35 | 45   | 92      | 57           | 280        |
| 7  | Priyanshu       | 6       | 95      | 94 | 59   | 83      | 62           | 393        |
| 8  | Simran          | 7       | 84      | 61 | 87   | 65      | 84           | 381        |
| 9  | Manpreet Kaur   | 8       | 0       | 0  | 0    | 0       | 0            | 0          |
| 10 | Harshdeep Singh | 9       | 75      | 84 | 58   | 84      | 37           | 338        |
| 11 | Keerti          | 10      | 39      | 80 | 74   | 54      | 88           | 335        |
| 12 |                 |         |         |    |      |         |              |            |
| 13 |                 |         |         |    |      |         | <b>TOTAL</b> | <b>500</b> |

### 2. Code for experiment/practical:

**IF statement:** =IF(H2>250,"Pass","Fail")

**Nested IF:** =IF(H2>350,"Good",IF(H2>250,"Average", "Poor"))

**AND:** =AND(I2="Pass",J2="Good")

**OR:** =OR(I2="Pass",J2="Good")

**NOT:** =NOT(I2="Fail")

**IFERROR:** =IFERROR((H2/\$H\$13)\*100,"Indeterminate")

**SUMIF:** =SUMIF(B2:B11,">5",E2:E11)

**AVERAGEIF:** =AVERAGEIF(B2:B11,"<5",E2:E11)

**COUNTIF:** =COUNTIF(E2:E11,">70")

### 3. Result/Output/Writing Summary:

|    | I    | J          | K     | L     | M     | N        |
|----|------|------------|-------|-------|-------|----------|
| 1  | IF   | Nested IF  | AND   | OR    | NOT   | If Error |
| 2  | Pass | Good       | TRUE  | TRUE  | TRUE  | 76.2     |
| 3  | Pass | Average    | FALSE | TRUE  | TRUE  | 59.4     |
| 4  | Pass | Average    | FALSE | TRUE  | TRUE  | 64.6     |
| 5  | Fail | Poor       | FALSE | FALSE | FALSE | 17.2     |
| 6  | Pass | Average    | FALSE | TRUE  | TRUE  | 56       |
| 7  | Pass | Good       | TRUE  | TRUE  | TRUE  | 78.6     |
| 8  | Pass | Good       | TRUE  | TRUE  | TRUE  | 76.2     |
| 9  | Fail | Poor       | FALSE | FALSE | FALSE | 0        |
| 10 | Pass | Average    | FALSE | TRUE  | TRUE  | 67.6     |
| 11 | Pass | Average    | FALSE | TRUE  | TRUE  | 67       |
| 12 |      |            |       |       |       |          |
| 13 |      |            |       |       |       |          |
| 14 |      | Sum IF     | 278   |       |       |          |
| 15 |      | Average IF | 54.75 |       |       |          |
| 16 |      | Count IF   | 3     |       |       |          |

### 4. Learning outcomes:

- Formula creation, IF statements, Logical tests, AND/OR functions, error handling, decision-making
- We Learn implementation in excel logical Formula