# Task 4: Calculate User-Defined Fields Using Functions in Tableau

## 1. Dataset (sales.csv)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| OrderID | Product | Quantity | UnitPrice | Discount |
| 1 | Laptop | 2 | 50000 | 0.1 |
| 2 | Mouse | 5 | 500 | 0.05 |
| 3 | Keyboard | 3 | 1500 | 0 |
| 4 | Monitor | 1 | 12000 | 0.15 |
| 5 | Headphones | 4 | 2000 | 0.2 |

## 2. Calculated Fields in Tableau

Create the following user-defined calculated fields in Tableau:

1. Total Price = [Quantity] \* [UnitPrice]

2. Discounted Price = [Quantity] \* [UnitPrice] \* (1 - [Discount])

3. Tax = [Discounted Price] \* 0.18

4. Grand Total = [Discounted Price] + [Tax]

## 3. Expected Output (sales\_with\_fields.csv)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| OrderID | Product | Quantity | UnitPrice | Discount | TotalPrice | DiscountedPrice | Tax | GrandTotal |
| 1 | Laptop | 2 | 50000 | 0.1 | 100000 | 90000 | 16200 | 106200 |
| 2 | Mouse | 5 | 500 | 0.05 | 2500 | 2375 | 428 | 2803 |
| 3 | Keyboard | 3 | 1500 | 0 | 4500 | 4500 | 810 | 5310 |
| 4 | Monitor | 1 | 12000 | 0.15 | 12000 | 10200 | 1836 | 12036 |
| 5 | Headphones | 4 | 2000 | 0.2 | 8000 | 6400 | 1152 | 7552 |

## 4. Instructions to Upload

1. Save the dataset (sales.csv).

2. Import it into Tableau.

3. Create the calculated fields as defined above.

4. Save the workbook as Task4\_UserDefinedFields.twbx.

5. Upload sales.csv, sales\_with\_fields.csv, and Task4\_UserDefinedFields.twbx to GitHub.