Programming Fundamentals

Lab Task 4

Topic: Arithmetic Operators, Relational Operators

Scenario:

Q. No.1:

a. You are developing a small café billing calculator.
A customer orders:

- 2 Burgers (price: 350 each)
- 1 Drink (price: 120)
- 1 Fries Pack (price: 150)

Task:
Using **only arithmetic operators**, calculate:

1. Total bill
2. 7% sales tax
3. Final amount after adding tax
4. Average cost per item

b. A train ticket costs **1200 PKR**.
Due to policy changes:

- **25% discount** is applied
- Then **8% service charges** are added back
- Finally, **Rs. 50** online booking fee is added

Task:
Compute the final ticket cost using **only arithmetic operators**.

Q. No.2:

a. A warehouse has:

- Required stock = 500 units
- Current stock = 420 units

Task:
Using **only relational operators**, evaluate these comparisons:

1. Is stock sufficient?
2. Is stock less than 50% of required level?
3. Is stock exactly equal to required stock?
4. Is the shortage greater than 50 units?

b. A student must have **75% attendance**.
He attended **48 classes** out of **60**.

Task:
Using **relational operators**, determine:

- Was the requirement met?
- Did he attend more than 50 classes?
- Did he attend less than 60% of total classes?

Rubric