### **5.D) CASE STUDY: SYNTHESIS OF ASPIRIN & PARACETAMOL**

**Assignment**

Discover and analyze **marketed brands** that contain **aspirin and paracetamol** as active pharmaceutical ingredients (APIs). Include in it,

1. Brand Investigation: Research at least two marketed products for each drug: including:

* Brand name
* Manufacturer
* Dosage form (e.g., tablet, capsule, suspension)
* API content (mg per unit)
* Additional ingredients (excipients)
* Target use (e.g., fever, pain, inflammation)

2. Label Analysis:

* Review product packaging and insert (if available)
* Note any warnings, side effects, or contraindications

3. Comparison Table:

* Create a comparative chart showing similarities and differences across brands (e.g., pricing, dosage, availability)

**Purpose**: To link the chemical synthesis of common drugs (aspirin and paracetamol) to their real-world presence in branded pharmaceutical products, fostering an understanding of both scientific and commercial aspects of drug development.