

**Program: computer engineering****Instructors:** Dr: Tarek Salem ,Eng:Fawzya Omar**Course/Code:** Web Programming /CSE216**Date:** 7/3/2025**Duration:** 7 days**Total Marks:**

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1. Write a function `calculateInventoryValue($products)` that accepts a multidimensional array of products. Each product is an associative array with keys: `name`, `price`, and `quantity`. The function should return the total inventory value (calculated as the sum of `price * quantity` for each product).
  
  2. Write a function `mergeAssociativeArrays($arr1, $arr2)` that merges two associative arrays.
    - If a key exists in both arrays, store the values as an **array** instead of overwriting them.
  
  3. Write a function `groupProductsByCategory($products)` that:
    - Groups products by category.
    - Filters out products priced **below \$50**.
    - Returns an associative array where the key is the category and the value is an array of products.