CS23304 – JAVA PROGRAMMING

ON THE SPOT

DATE: 15.7.26

1. a. Create an array of Book, print all details and given bookTitle search and print the details.
   b. create an array list of Book, find the booktitle whose number of copies is below a threshold(say 2)
   c. print the booktitles authored by same name. (5 marks)

2. Create a MenuItem class with: (5 marks)

- Fields: String itemName (e.g., "Espresso"), double price, int stockQuantity.
- Constructor: Initialize all fields.
- Methods: Getters, setters, and a printItem() method.
- toString()

Create a CafeInventory class with the main method:

- Instantiate an ArrayList<MenuItem>.
- Add at least 4 items (e.g., Mocha, Latte, Croissant, Muffin).
- Print the entire menu using a for-each loop.
- Calculate and print the total value of the inventory Value = sum of (price) * stockQuantity.

3. Create a DigitalOrder class with: (5 marks)

- **Fields:** String customerName, String orderTime, ArrayList<String> itemNames.
- **Constructor:** Initialize name and time, and instantiate itemNames as a new ArrayList.
- **Methods:**
  - addItem(String item): Adds an item to the order.
  - removeItem(String item): Removes the first instance of an item.
  - modifyOrder(int index, String newItem): Updates the item at a specific position.
  - calculateTotal(): Prints the final order and returns a dummy total cost (e.g., $4.50 per item).

In the main method:

- Create a new order, add 5 juicess, remove one, modify another, and call calculateTotal().