

## **Question Set 2**

### **Guidelines:**

1. All the questions should be answered strictly using Java
2. While giving questions, request not to use any collection (java).
3. Please answer all 3 questions.
4. Request you not to use Google or any other reference books for solving this paper.
5. Please attach this PDF file along with answers & share it back within 24 hours from receipt of this paper.

**Q1:** Find the first non-repeated (unique) character in a given string.

**Q2:** Given the number, reorder it in such a way that the subtraction of each from RHS to LHS is a non-negative number. In case, the number as an input cannot support this, print "Invalid number"

Ex: Input : 1481, Output: 8411 (8-4-1-1 = 2)

Ex: Input: 1897, Output: Invalid Number

**Q3:** How could this method be optimized?

```
public String generateHTMLTable(Vector list) {  
  
    String ret = new String("<html><body><table>");  
  
    for (int c = 0; c < list.size(); ++c) {  
  
        ret += "<tr><td>" + list.elementAt(c) + "</td></tr>";  
  
    }  
    ret += "</table></body></html>";  
  
    return ret;  
  
}
```