### **Live Session**

Welcome to the live session on the part 1 of ‘Sets & Dictionaries’ Module.

**Objective**

In this session, the learners will resolve their doubts around the module. They will also revise the concepts that have been covered in the module.

**Agenda**

1. Part-I: Introduction (10 mins)
2. Part-II: Focused Teaching - Hashmaps and Hash Sets- Conceptual (15 mins)
3. Part-II: Focused Teaching - Hashmaps and Hash Sets- Problem Solving (90 mins)
4. Part-III: Interview Discussion (10 mins)
5. Part-IV: Doubt Resolution (15 mins)

| Element Name | Colour Code |
| --- | --- |
| Doubt Resolution/P2P |  |
| Focused Teaching |  |
| Personalised Feedback |  |
| Career Guidance |  |
| Flip Classroom |  |
| Miscellaneous |  |

**Note for the Instructor:**

* Please make sure to test run your codes/queries prior to the session to avoid any hick-up during the session.
* During the hand-on as the learners are supposed to code parallelly, make sure to explain the steps clearly and keep track of the student's progress.

| Component | Instruction Task/Learner Task | Time (mins) | Element of Engagement |
| --- | --- | --- | --- |
| Part-I: Introduction | Introduce yourself & Congratulate the learners for their journey so far in the Course. | 10 | Social Support |
| Part-II:  Hashmaps and Hashsets | Quick revision on Hashmaps and Hash Sets   * Overview * When to use it * Hashing & Hash functions * Declaration in Java | 15 | Focused Teaching |
| Part-III:  Problem Solving | Solve 3 (Two easy (one from upgrad platform), one medium) problems. Keep it as interactive as possible. Follow the following steps:   * Give 5 mins for the learners to go through the question * Derive an algorithm (Try to get all the steps from the learners) * Write code   You can refer to the following links:  <https://www.interviewbit.com/problems/largest-continuous-sequence-zero-sum/>  https://www.interviewbit.com/problems/longest-subarray-length/ | 90 | Focused Teaching |
| Part-IV: Interview Preparation | Address some common interview questions related to Hashtables & Hashmaps. Also, ask the learners to answer a few of them first before you provide them with the necessary explanation. | 10 | Interview Questions |
| Part-V: Doubt Resolution | Clear the doubts that the learners might have.  *Don’t spend too much time on unnecessary or vaguely-constructed doubts.* | 15 | Doubt Resolution |