

CRASH COURSE FOR **TRAKLABS BOOT CAMP ENTRANCE EXAM**

1. Object Oriented Programming

The basics

[Time to spend: 2 hrs]

1. Read theory from here - <https://www.geeksforgeeks.org/object-oriented-programming-oops-concept-in-java/>
2. If you learn better from video then learn from here - https://www.youtube.com/watch?v=SiBw7os_zl&t=1027s

Learning Outcomes:

- You will know the concepts of Inheritance, Polymorphism, Abstraction and Encapsulation in detail
- You will know how to implement these concepts with Java

Advanced learning

[Time to spend: 3 hrs]

3. <https://www.youtube.com/watch?v=fJW65Wo7IHI>

Learning Outcomes:

- Model a real world problem using OOP concepts

2. HTML, CSS and Javascript

The basics

[Time to spend: 2 days]

1. HTML - <https://www.youtube.com/watch?v=UB1O30fR-EE> (watch in 1.5x)
2. CSS - <https://www.youtube.com/watch?v=yfoY53QXEnI> (watch in 1.5x)
3. Javascript - <https://www.youtube.com/watch?v=hdl2bqOjy3c> (watch in 1.5x)

For written notes, pls refer to - <https://www.geeksforgeeks.org/javascript-tutorial/>

Learning Outcomes: You would know the basics of HTML, CSS and Javascript and how to use them

Advanced learning

[Time to spend: 2 days]

1. How to build a website with html, css, js - <https://www.youtube.com/watch?v=FazgJVnrVul>

Learning Outcomes: You should be able to build a basic website by combining all 3.

3. **Data Structures**

[Time to spend: 7 days]

1. Learn the basic concepts - <https://www.geeksforgeeks.org/data-structures/>
2. Solve at least 5 - 6 problems in each of the following topics
 1. [Array](#)
 2. [Linked List](#)
 3. [Stack](#)
 4. [Queue](#)
 5. [Binary Tree](#)
 6. [Binary Search Tree](#)
 7. [Heap](#)
 8. [Hashing](#)
3. Data Structures in Javascript - <https://www.youtube.com/watch?v=t2CEgPsws3U>
4. Search for video tutorials on YouTube for each problem statement rather than topics.

Learning Outcomes:

- Implementing basic data structures in any one of the languages like Java or C++
- Idea about data structures used by web developers

Once you are ready, WhatsApp us on +919740929092 and we will send you the test link.