**CALIBRAINT TECHNOLOGIES**

ROUND 1 – Programming round (Written test)

ROUND 2 – Group Discussion

ROUND 3 – Technical HR -1

ROUND 4 – Technical HR -2

ROUND 5 – Personal HR

**ROUND 1 – Programming Round**

1. **Chunk array**

Given an array and a chunk size, return a chunked array.

INPUT: arr = [1,0,-3,2,4,6,8,0,9,1,-12,0,0,2], size = 3

OUTPUT: [[1,2,4],[6,8,9],[1,2]];

1. **Rotate array**

Given an integer array nums, rotate the array to the right by k steps, where k is non-negative.

INPUT: nums = [1,2,3,4,5,6,7], k = 3

OUTPUT: [5,6,7,1,2,3,4]

1. **Roman to Integer**

INPUT: s = "MCMXCIV"

OUTPUT: 1994

EXPLANATION: M = 1000, CM = 900, XC = 90 and IV = 4

(Around 115 students are shortlisted to 2nd round from 860 students)

**ROUND 2 – Group Discussion**

* Started with a fun topic – “If a time machine is given to you, will you go to past or future? Why?”
* Each batch consists of around 20 students. They are segregated into 2 teams to speak on a topic of “IT field – is the best vs is the worst”.

**ROUND 3 – Technical HR - 1**

* Tell me about yourself.
* Asked to write a program “To find 2nd maximum element in an array without using inbuilt sort function and to use only one loop”.
* Questions are based from the resume.
* Asked to show the demo of one of my live projects (web development – portfolio).
* Tell me what do you know about Java.
* Tell me what do you know about Javascript.

**ROUND 4 – Technical HR – 2**

* Questions based on my code in GitHub repository (based on javascript).
* What is API? Why it is used?
* What is Callback?
* What is Promise?
* What is async and await? Why it is used?
* What is difference between normal function and arrow function?
* 3 questions based on logical reasoning.
  + Given a weight machine, 8 balls. Out of which only weight of one ball is known. How will you find which ball is maximum in weight? Optimum solution is done with 2 iterations.
  + Crossing bridge
  + Given 2 threads. It will burn completely within 1 hr. How will you find 45mins from it?

**ROUND 5 – Personal HR (With company CEO)**

* Tell me about yourself.
* This company follows bond procedure. What do you think about it?
* Do you have any questions?

**Finally explained the process of joining. 2 months of training. 1st month there will be no stipend. From 2nd month stipend will be 10K. Based on performance training period may be extended maximum upto 3 months. Then CTC of 4LPA will be provided. Bond is for 3 years.**