Bachelor of Technology in

Computer Science Engineering

Specialisation in Software Product Engineering





#EngineeredDifferently

India's only work-integrated B.Tech program with assured internships at top tech companies at end of first year

Program at a Glance



B.Tech Program After 12th | 4 Year Full-Time On-Campus

Key Highlights

Professional Tech Skills

Master in-demand tech skills like Full Stack **Development** through industry level projectbased learning





Assured Paid Internships

Intern from Year 2 to 4 at top tech companies & earn Stipends up to INR 8 Lakh

3 Times Better **Pay Package**

Gain 3 Years Work **Experience** while learning to get a 3X higher CTC in final year placements





Personalized Mentorship

Get Mentored by Tech Professionals and become industry ready faster

Potential Recruitment Partners

















+more

Backed by Top Tech Leaders



Rahul Chari Co-Founder, CTO at PhonePe



Anupam Mittal Founder at People Group



Kunal Shah Founder at CRED

+more



Nithin Kamath CEO at Zerodha



Ankit Bhati Ex Co-Founder at OI A

About Kalvium



The Tech Industry has been the prime mover behind all major advancements in the world. Today's technology companies require skills and experience, and not just degrees and that's where Kalvium comes into picture.

At Kalvium, our vision is to reimagine the Tech degrees offered by universities today, making them relevant for today and tomorrow. We do this by building an ecosystem powered by our proprietary cutting edge curriculum that offers an immersive learning experience.

Kalvium provides work-integrated Computer Science degree programs in collaboration with top accredited universities to help graduates achieve real-world readiness. Skills where graduation outcomes are aligned with industry roles and experience with work opportunities from Year 2 of study.

Kalvium's promoter team has over 12 years of experience in the IT talent management space. Over the years they have had strong working relationships with leading IT companies from India and abroad. We have the experience in serving over 500+ technology companies in the past and leveraging this experience to rope in recruitment partners for this Work Integrated Degree program model.

Apart from past experience, the promoters have also raised external investment from founders and CEO's of some of the biggest Tech brands in the world like Flipkart, Udaan, Cred, Ola Cabs, Zerodha, PhonePe to name a few.





The Program Highlights





Relevant Work experience

With our work-integrated curriculum, students get paid internship opportunities with top tech companies at the end of the 1st year which will prime the students with relevant work experience and they graduate being industry-ready.

Empowering Financial Independence

With an earning potential of up to INR 8 Lakhs in stipend, students get to work with top tech companies which inculcates a sense of responsibility.

Higher salary package

Kalvium's students graduate with 3 years of work experience, which puts them way ahead of their peers as freshers and have the potential to earn a 3x higher salary package.

Placements in top tech companies

The Kalvium program is backed by Tech Industry leaders and houses an exhaustive list of top tech companies that provide end of 1st year paid internships and final year placements.

Nurture growth mindset

Kalvium powered by its cutting-edge curriculum is designed to help you nurture a growth mindset and big picture thinking, and in turn you begin to set bigger career goals as well as develop an attitude of lifelong learning.

One-to-One Personal mentorship

One-to-one personal mentorship which is offered as part of the program at Kalvium aims at helping students grow to become their unique best versions and nurture them to become tech leaders of tomorrow.

Program Structure



The program has 4 types of courses broadly defined as -

Skilling Courses

A set of courses crafted to take a liberal approach to help students develop crucial 21st-century skills and cognitive abilities in both professional and personal life.

Foundation Courses

Courses oriented towards MERN Stack Development, that starts with basic programming eventually leading up to high-level product development.

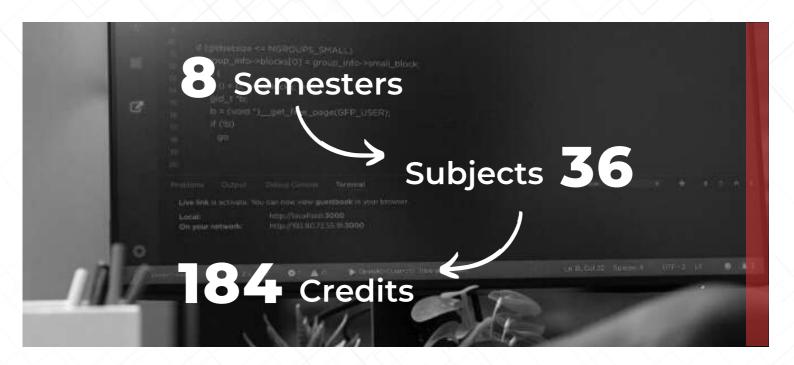
Academic Courses

Designed to inculcate strong foundational knowledge in computer science, the courses are thoughtfully crafted to impart concepts, their applications & practical labs associated with them.

Integrated Work

Relevant work experience in top tech companies where students gain real world software development expertise, workplace exposure, and industry-ready skills.

B.Tech in Computer Science Engineering with specialization in Software Product Engineering





Key Milestones



4 Years at Kalvium, a foundation for a Thriving Tech Career



List of Courses



Academic Courses

- 1. The breadth of Computer Science 1
- 2. The breadth of Computer Science 2
- 3. Data Structures & Algorithms
- 4. Discrete Mathematics
- 5. Computer Organization & Architecture
- 6. Operating Systems
- 7. Design & Analysis of Algorithms
- 8. Database Management Systems
- 9. Formal Language & Automata Theory
- 10. Object Oriented Programming
- 11. Compiler Design
- 12. Computer Networks
- 13. Design for Developers





Foundation Courses

Critical Thinking 101.1

Professional Skills for The Workplace .2

Learning How to Learn .3

Principles of Science .4

Mathematical Thinking 101 .5

How Human Languages Work? .6

Tools & Techniques for Creative Thinking .7

English LSRW .8

Discovering Self .9

Fundamentals of Business Management.10



Delivery powered by QUADRANGLE



Quadrangle is Kalvium's proprietary A.I powered learning ecosystem that offers an immersive learning experience.



Offers outcome-focused rich analytics for students to keep a track of their performance.



Facilitates work-integration by providing necessary performance & productivity metrics.



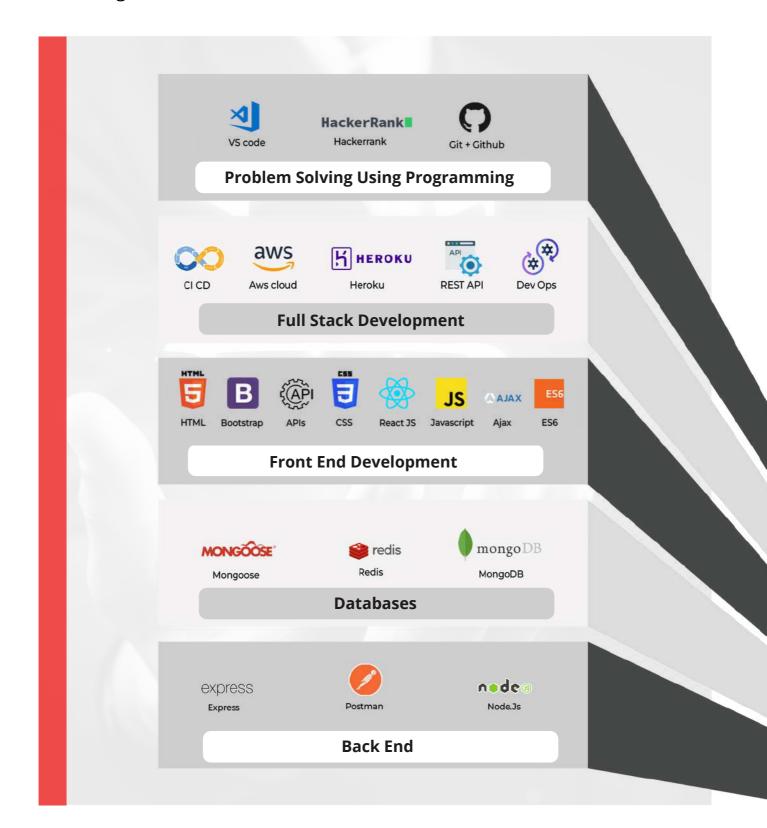
Provides Interactive lessons, live classes, mini-projects, challenging labs, & more.



Skilling Courses



With Kalvium, you learn new-age tech skills as core concepts in Year 1 & in-demand technologies that enable you to become a Full Stack Developer before graduation.





Student Development Activities



Kalvium's cutting-edge curriculum is aimed at creating an all-around fascinating learning experience that not only primes up the academic proficiency but also helps nurture students to become the best version of themselves.

The student development activities are a core part of the curriculum and are intended to involve students in free-spirited learning activities that promote cross-disciplinary skills such as communication, confidence, peer learning, presentation, creative problem-solving and interaction with high achievers from the tech industry.

Here's to name a few that you would be experiencing as part of the curriculum;

Podcast- Kalvium Konnect

These sessions are focused on encouraging learning from peers and experts. The expert sessions would be handled by high-achievers (CTOs, Engineering Managers, SDEs, etc.) from the tech industry, which will give students the exposure to real-world engineering problems and how teams go about solving them. The peer sessions on the other hand would be an opportunity for students from the same class to present new & interesting topics for others to learn from.

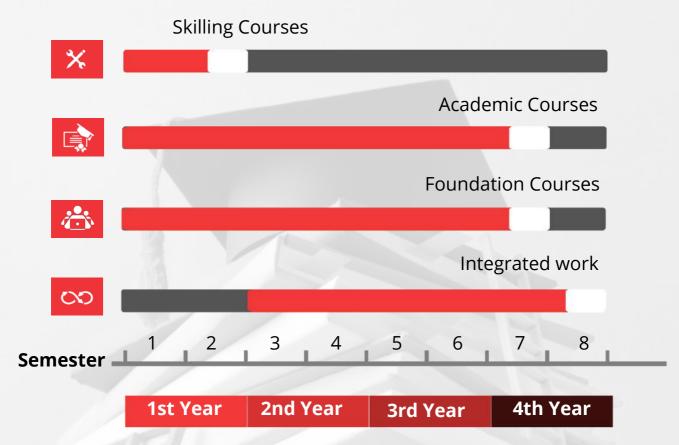
Competitive Programming (CP) Club

This one is our personal favorite; sessions under the CP Club are headlined by high achievers from the world of competitive programming - top-rankers from contests such as Google Code Jam, Hash Code, Kickstart, Facebook's Hacker Cup, ICPC, and more. The aim of these sessions would be to teach ideal problem-solving techniques for CP problems, build awareness of CP in one's career as well a roadmap towards landing top tech jobs.



Credit Plan





CREDIT PLAN	NO. OF SUBJECTS	CREDITS
Academic Courses	17	59
Foundation Courses	13	45
Skilling Courses	5	20
Open Elective	1	4
Integrated work	-	56
Total	36	184

Semesters at a Glance



Year 01

Semester 01 Credi	ts: 26	Semester 02 Credit	s: 20
Front -End Web Development	4	Back-End Web Development	. 5
Critical Thinking 101	4	Databases	. 3
Discrete Mathematics	4	Learning How to Learn	. 4
Professional Skills for the Workplace	3	The Breadth of Computer Science 2	4
The Breadth of Computer Science 1	4	Full Stack Development	4
Problem Solving using Programming	4		
Design for Developers	3		

Year 02

Semester 03	Credits: 22	Semester 04	Credits: 24
Economics, Politics & Society Development Mathematical Thinking 1 Database Management : Object Oriented Program	01 4 Systems 5 nming 4	How Human Langu Tools & Techniques Creative Thinking Operating Systems Data Structures an Integrated Work wi	s for
		Partner Company .	
		Operating Systems	Lab 1



Semesters at a Glance



Year 03

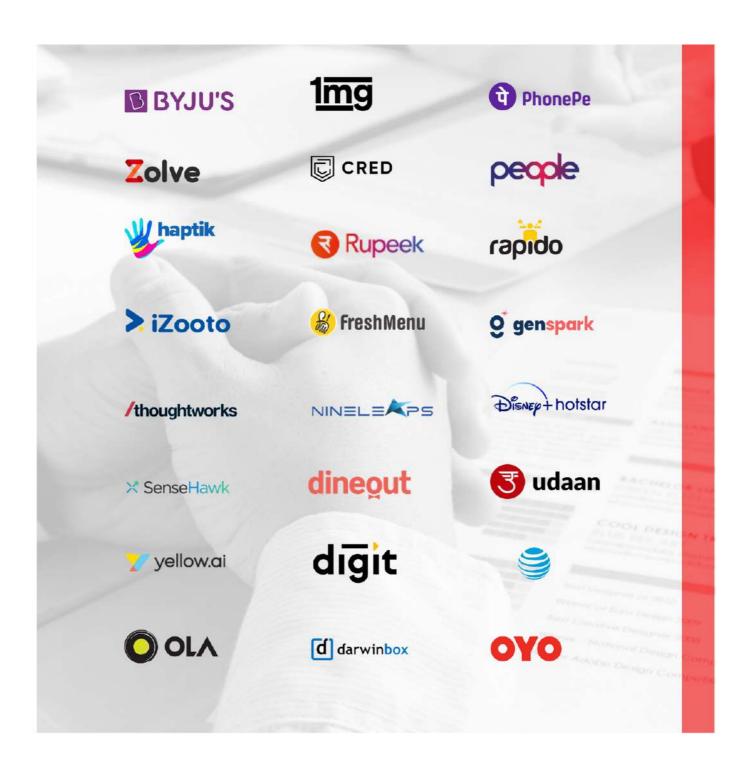
Semester 05	Credits: 26	Semester 06	Credits: 22
English LSRW	3	Discovering Self	3
Principles of Science	4	Fundamentals of Business	
Computer Organization 8	×	Management	3
Architecture	4	Formal Language &	
Compiler Design	4	Automata Theory	4
Design & Analysis of Algo	rithms 3	Computer Networks	4
Integrated Work with a		Integrated Work with a	
Partner Company	8	Partner Company	8

Year 04

Semester 07	Credits: 22	Semester 08	Credits: 20
Introduction to Philosophy	3	Any approved	
Foundation Elective	3	Open Elective- any fie	ld 4
Academic Elective -1	4	Integrated Work with	
Academic Elective -2	4	Partner Company	16
Integrated Work with a			
Partner Company	8		

Potential Recruiting Partners





Backed by Top Leaders in Tech





Nithin Kamath CEO at Zerodha



Rahul Chari Co-Founder, CTO at PhonePe



Kunal Shah Founder at CRED



Sujeet Kumar Co-Founder at Udaan



Vaibhav Shah SVP Engineering at ACKO Insurance



Anurag Vohra CTO at Bajaj Finserv Health



Aravind Sanka Co-founder & CTO at Rapido



Mathangi Sri CDO at Cred Avenue



Guru Venkatachalam VP and CTO- APJ at VMWare



Himanshu Verma CPTO at Licious



Gaurav Agarwal
Co-Founder
at 1mg



Kailash Nadh CTO at Zerodha



Ankit Bhati Co-Founder at OLA



Anil Goel President at Byju's



Romil Jain Co-Founder & CTO at INCREFF



Kumar Muthuraman
Professor at
The University of Texas



Manjunath Talwar Product Lead at Cred



Muralidharan Head Strategy & Ops at Yellow.ai



Abhilash Nair APAC Recruting Leader at Google



Sarv Saravanan VP & Business Leader at Microsoft

Admission Process



STEP 1

<u>Log in</u> to the Kalvium page on the official Tashashila's website & Register using your contact information

Take the Kalviness Quotient Challenges (eligibility test)

STEP 2

STEP 3

Submit your application

The application is reviewed & the results announced by Kalvium in 7-10 working days.

STEP 4

STEP 5

Accept admission offer & submit the program fee





Eligibility Test & Criteria



100% Cut-Off for Passion. Marks don't Matter.

Eligibility Test

Eligibility Test Attempts

Practice Tests

Age Criteria

The Kalviness Quotient (KQ)
Challenges

1 attempt *Multiple sitting

Available alongside the KQ Challenges

Minimum: 16 years Maximum: 20 years

The Kalvium Eligibility Test is divided into seven sections,

- 1. Data Interpretation & Analysis
- 2. Numerical Skills
- 3. Logical Reasoning
- 4. Communication Skills
- 5. Creative Thinking
- 6. Problem Solving Skills
- 7. Algorithmic Skills



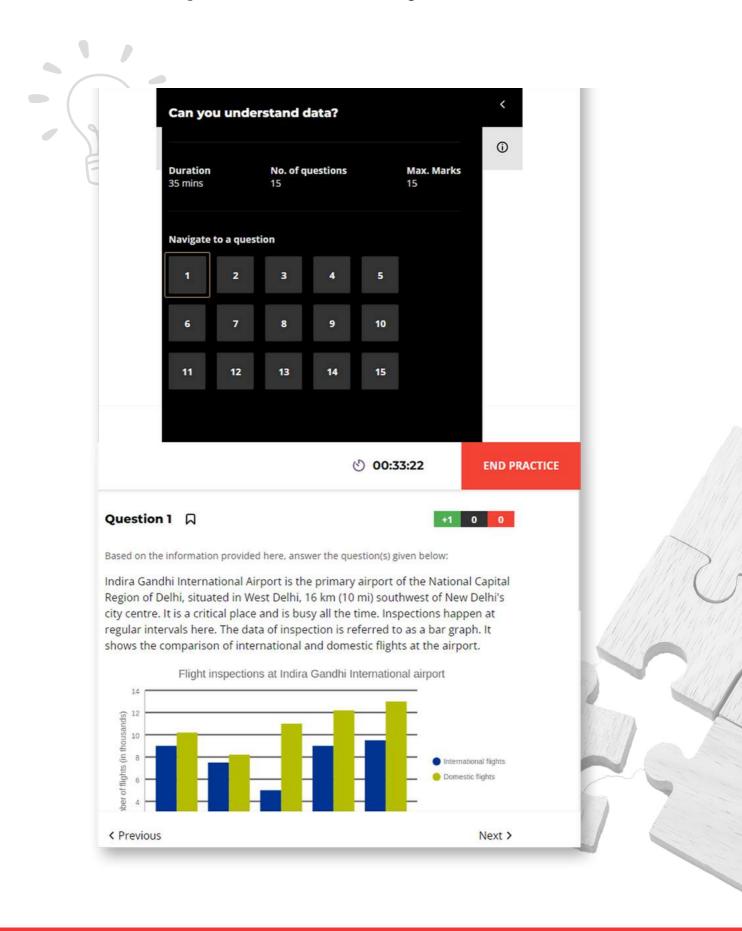
Unlike typical entrance exams, this is not a relative grading measure but an absolute measure that closely correlates with how ready you are for a career in software engineering





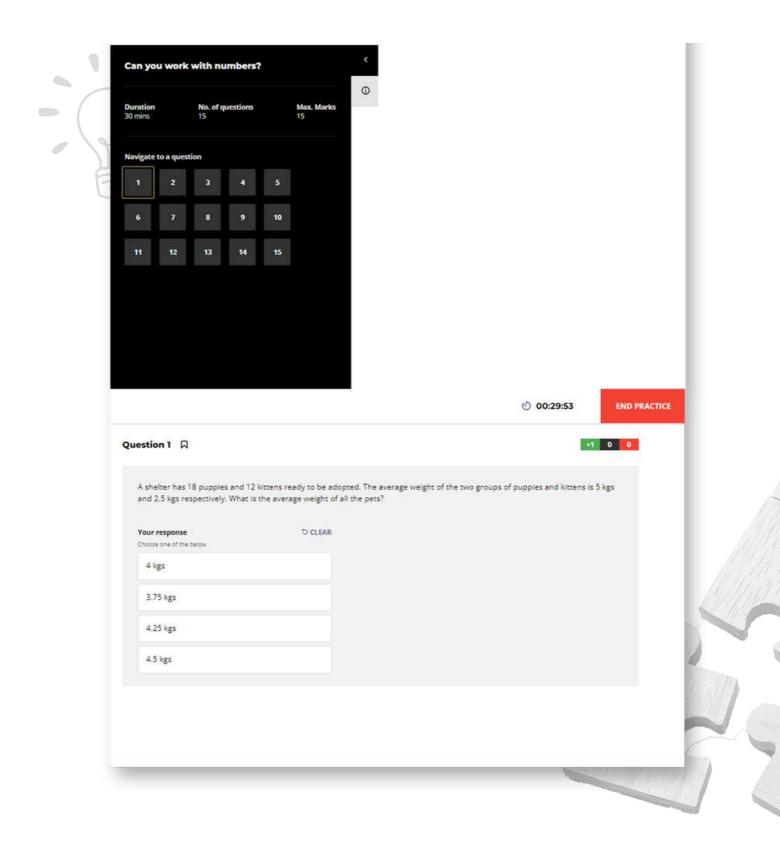


Test 1: Data interpretation and analysis



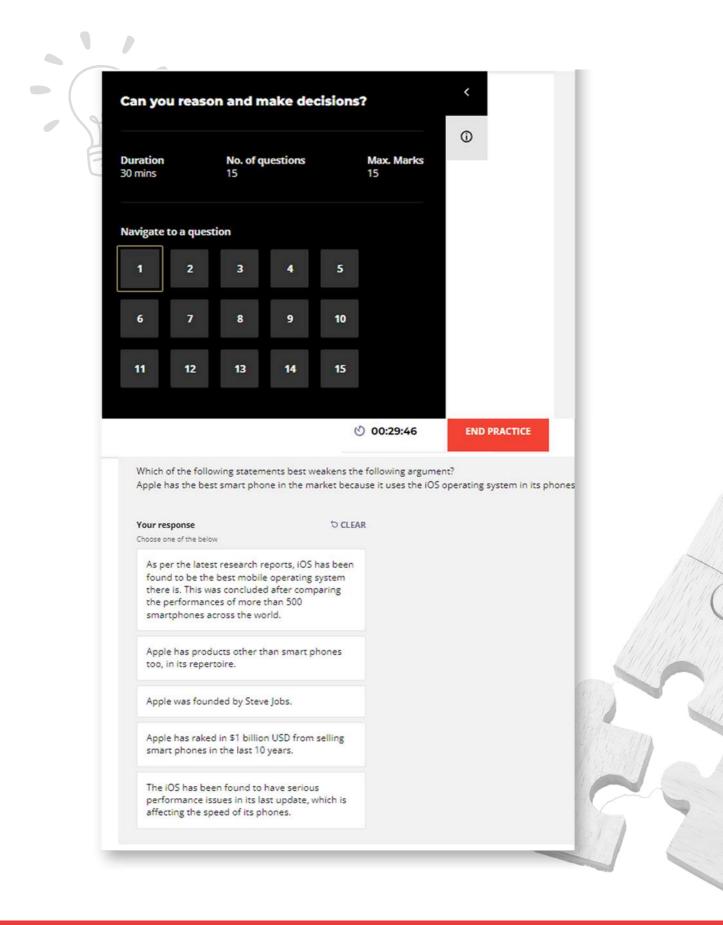


Test 2: Numerical skills



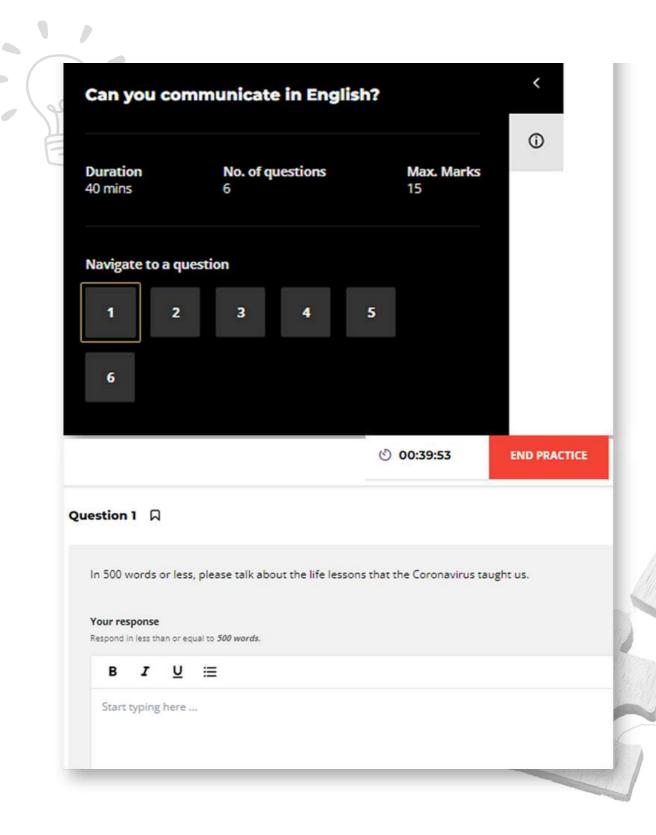


Test 3: Logical reasoning and decision making skills



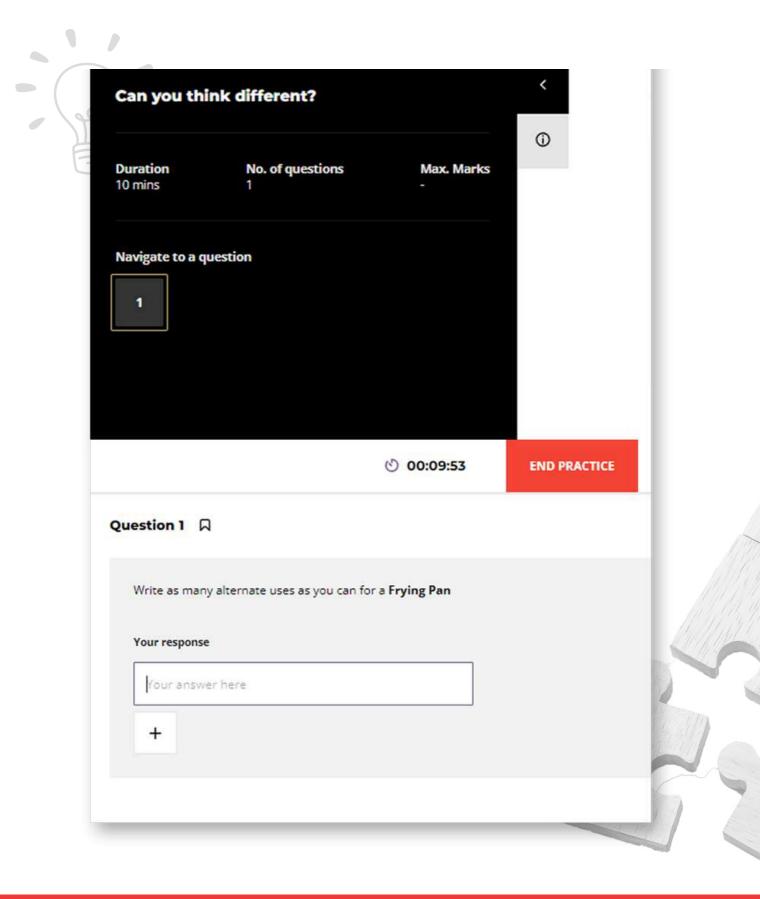


Test 4: Communication skills



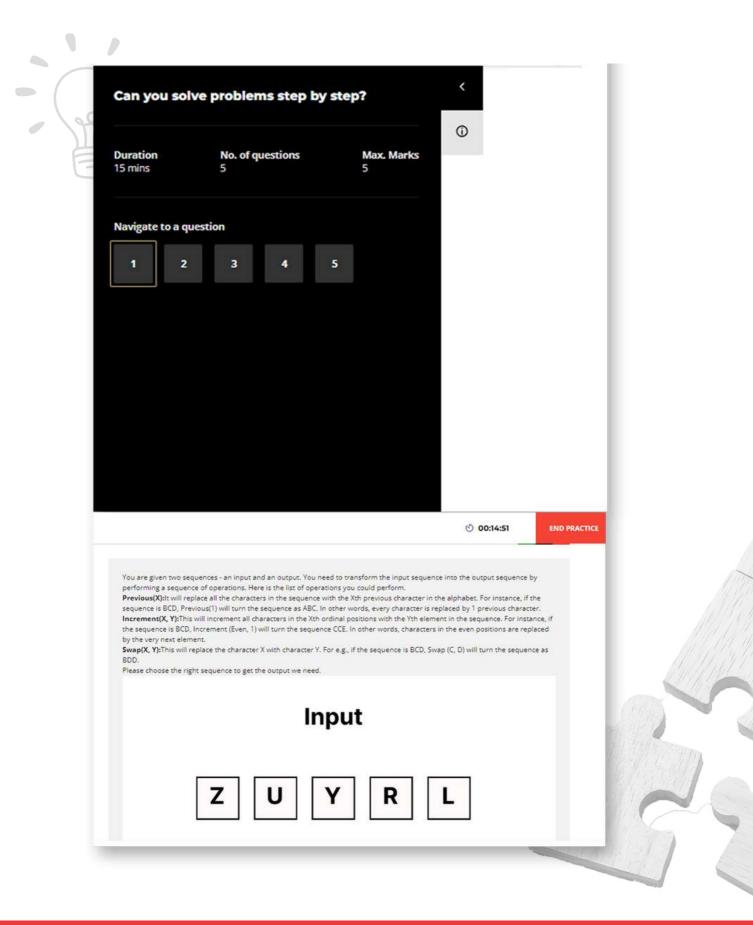


Test 5: Creativity



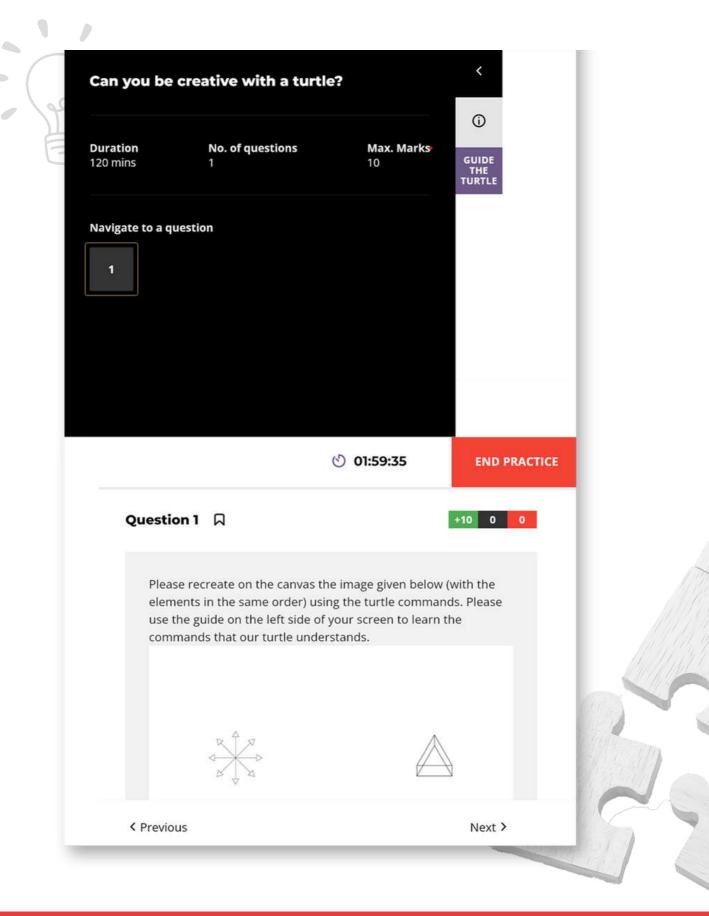


Test 6: Problem solving skills





Test 7: Algorithmic thinking



Fee and Scholarship



TUITION FEE

• ₹ 5,00,000 Per annum

SCHOLARSHIP

Kalvium scholarship up to ₹ 2,00,000 per annum
 Based on merit in Kalviness Quotient (KQ) Challenges

TUITION FEE

(After scholarship)

₹ 3,00,000 per annum



Additional charges (some optional) including examination, hostel, transport etc. are applicable as per the university guidelines. Please refer to Takshashila's official university website for more information.



APPLICATIONS ARE OPEN





B.Tech Degree in Computer Science

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Click here to

