

DEEP  
NEURAL  
RESEARCH

COMPETITIVE  
PROGRAMMING

MOBILE & GAME  
DEVELOPMENT

DEVOPS

IOT & EMBEDDED  
SYSTEM INNOVATORS

LINUX BASED  
NETWORKING

WEB DEVELOPMENT



Premier University  
Computer Club

ISSUE FALL 2024



NOVEMBER 2024 - MAY 2025

**PUCC**

PREMIER  
UNIVERSITY  
COMPUTER  
CLUB



FALL 2024 SESSION (NOVEMBER 2024 - MAY 2025)

# PUCC

FALL 24      SESSION'S  
ACTIVITY      PUBLICATION

RAYANUL KADER CHOWDHURY

IFTEKER MOHD SHAYAFUDDIN CHOWDHURY

CHINMAY BARUA NOBO

| H E L L O ,  
| W O R L D !

PREMIER UNIVERSITY COMPUTER CLUB

# PREEUACUS

It is with great pride and enthusiasm that we present the Fall 2024 edition of the Premier University Computer Club Magazine. This publication serves not only as a reflection of our club's progress but also as a celebration of the vibrant ideas, innovations, and collaborations that continue to define our journey.

Over the past semester, the Premier University Computer Club has witnessed remarkable growth—both in its technical ventures and in its community spirit. From hands-on workshops and national competitions to research initiatives and collaborative projects, our members have demonstrated relentless dedication and a passion for pushing boundaries in the ever-evolving field of computing.

This magazine brings together the creative and intellectual contributions of our members, showcasing articles, insights, and stories that span a wide array of topics—from artificial intelligence and cybersecurity to software engineering and tech culture. It reflects the diverse interests and expertise within our club, as well as our shared commitment to learning and innovation.

We extend our heartfelt thanks to all contributors, editorial members, and supporters who made this issue possible. Your efforts embody the values of curiosity, excellence, and collaboration that our club stands for.

As you turn these pages, we hope you find inspiration, knowledge, and a deeper connection to the dynamic world of computing. Let this magazine be a testament to our collective passion—and a preview of the even greater things to come.

Premier University Computer Club  
Fall 2024

It gives me immense pleasure to extend my warmest congratulations and sincere best wishes to the entire team of the Premier University Computer Club on the successful publication of this magazine. This remarkable initiative reflects the talent, passion, and commitment of our students, who continue to excel both academically and creatively.

In today's rapidly evolving digital world, platforms such as this magazine play a crucial role in nurturing curiosity, encouraging collaboration, and promoting the exchange of ideas. It is particularly inspiring to see our students take such thoughtful steps toward not only enhancing their own knowledge but also contributing meaningfully to the broader academic and technological community.

I wholeheartedly commend the dedication, teamwork, and leadership demonstrated by the editorial board and contributors. Your efforts truly enrich the culture of our department and the university as a whole.

As you move forward, I hope this publication continues to grow in both depth and reach. May it pave the way for new ideas, exciting collaborations, and continued excellence in the years to come.

Wishing you all continued success and a very bright future.

Warm regards,

A handwritten signature in black ink, appearing to read "Shahid" or "Asif".

DR. SHAHID MD. ASIF IQBAL

PROFESSOR & CHAIRMAN,

DEPARTMENT OF COMPUTER SCIENCE AND

ENGINEERING



# PREMIER UNIVERSITY COMPUTER CLUB

## AD-HOC COMMITTEE (FALL `24)



DHRUBA DEY  
VICE-PRESIDENT



RAYANUL KADER CHOWDHURY  
VICE-PRESIDENT



SUSMOY BARUA  
GENERAL SECRETARY



RAKTIM BARUA  
TREASURER



MISHKATUL ISLAM  
WING SECRETARY  
(COMPETITIVE PROGRAMMING)



ROBIUL HOSEN  
WING SECRETARY  
(DEVOPS)



MD IMTIAZ UDDIN  
WING SECRETARY  
(LINUX BASED NETWORKING)



MUHAMMAD RAFI  
WING SECRETARY  
(WEB DEVELOPMENT)



MINHAJ UDDIN HASSAN  
WING SECRETARY  
(IOT & EMBEDDED SYSTEM  
INNOVATOR)



WAHIDUL ISLAM  
WING SECRETARY  
(MOBILE & GAME DEVELOPMENT)



MD. HASIBUL HOSSAIN  
WING SECRETARY  
(DEEP NEURAL RESEARCH)

# **SPECIAL THANKS TO OUR HONORABLE GUESTS**

The Computer Club extends its heartfelt thanks to the incredible organizing team whose dedication, commitment, and unwavering support made this event possible. From planning to execution, every detail reflected your hard work and passion. Without your tireless efforts behind the scenes, none of this could have been accomplished. You have not only ensured the smooth flow of the event but also created an experience to

**MD. ATAUR RAHMAN**

MARIE CURIE EARLY-STAGE PH.D.  
UNIVERSITAT POLITÈCNICA DE  
CATALUNYA (UPC)  
UNIVERSITÉ LIBRE DE BRUXELLES  
(ULB)



**KHALED MOSHARRAF PARVEZ**  
CODEFORCES RATING 1708



**ABID AL AQIB**

LEAD DEVELOPER AT DREAMERZ LAB,  
FOUNDER OF THE AAA, AND CO-  
FOUNDER OF MATRASOFT



# SPECIAL THANKS TO OUR HONORABLE GUESTS

ARNAB DASGUPTA  
SOFTWARE ENGINEER AT  
GOOGLE



EIMU BARUA  
SOFTWARE ENGINEER AT  
ENOSIS



MOHAMMED MOHIUDDIN  
TRAINER AT DREAMERS ACADEMY

# SPECIAL THANKS TO OUR ORGANIZING TEAM

The Computer Club extends its heartfelt thanks to the incredible organizing team whose dedication, commitment, and unwavering support made this event possible. From planning to execution, every detail reflected your hard work and passion. Without your tireless efforts behind the scenes, none of this could have been accomplished. You have not only ensured the smooth flow of the event but also created an experience to remember. Your teamwork and enthusiasm truly define the spirit of our club. Thank you once again for being the backbone of this success. We are proud and grateful to have you with us.



MEHEDI REZA



MOHAMMED AZMAYEN  
HRYTTIC



SAJEDA HOQUE



RAKIBUL HOQUE



IFTEKER MOHD



HAMED SHARTAZ

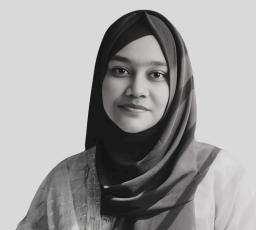


ARNAB DAS



ARNAB SHIKDER

SHAYAFUDDIN CHOWDHURY



SANJIDA SULTANA AKHI



ANAMIKA ROY



FOISAL ABIDEEN



HAMEEM HOSSAIN

# SPECIAL THANKS TO OUR ORGANIZING TEAM



MEHEDI HASSAN



SAYEED IBNE SAIF



MD SADIT AL SEKANDER



MAHAFUJUL ALAM SAYEM



MD SAIFUL ALAM



FAYEZ SALEHIN PRANTA



ANINDITA BARUA



RAFIUL HASAN



ULLAS GHOSH



MOHAMMED TOWHIDUL ISLAM



SATHIRTA BISWAS



ADITYA DAS



CHINMAY BARUA NOBO



EHSANUL HOQUE



BHADHAN BARUA



NILOY TALUKDER



OMI PAUL



MD. ZAWADUL HAQUE ZAWAD



MD. JAHIDUL ISLAM CHOWDHURY



CHAITY TALUKDER MUMU

# SPECIAL THANKS TO OUR COMPETITIVE PROGRAMMING BOOTCAMP

WE EXTEND OUR HEARTFELT THANKS TO THE ENTIRE TRAINERS' TEAM FOR THEIR UNWAVERING SUPPORT, GUIDANCE, AND DEDICATION. YOUR VALUABLE INSIGHTS AND TIRELESS EFFORTS HAVE GREATLY ENRICHED OUR LEARNING AND GROWTH. THIS MAGAZINE STANDS AS A REFLECTION OF THE KNOWLEDGE AND INSPIRATION YOU HAVE SHARED WITH US. WE ARE TRULY GRATEFUL FOR YOUR CONTRIBUTION AND MENTORSHIP THROUGHOUT THIS JOURNEY.

## TRAINERS TEAM



TASFIA TABASSUM

NASRIN JAHAN RIPA



SHAFAYET ULLAH RAMIM

AYON DAS GUPTA

RUHUL AMIN SHARIF



NUR ALAM JOY

MUHAMMAD ABDULLAH

TRIDIB DEB



JOY NATH

AVISHEK PAUL

RUDRA

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- First Meeting for Planning Fall 24 Session
- Fall 2024 Recruitment
- Meeting on Constitution Drafting and Future Planning
- Submission of the First Draft of the Club Constitution
- Participation in Cyber Raid 2025 CTF Competition
- Formation of Ad Hoc Committee
- First Official Meeting of the Ad Hoc Committee
- Participation in the Programming Contest at Bandarban University
- Outstanding Performance at IT Fest 2025
- Introductory Session of Web Development Wing
- Introductory Session of IoT and Embedded Systems Wing
- Introductory Session of Linux-Based Networking Wing
- Introductory Session of Deep Neural Research Wing
- Introductory Session of Competitive Programming Wing
- Introductory Session on Mobile and Game Development
- Live Session on Data Engineering and LLMs
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- Participation in Soccer Bot Competition (University of Chittagong)
- Performance at 24-Hour BCS CTF-2025
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- Monthly Contest – February Edition 2025
- Commemoration of International Mother Language Day
- Celebration of 14 Years of PUDS
- Participation in AUST IUPC 2025
- Seminar on Game and XR Technology by Mr. Abid Al Aqib
- Hands-on Arduino Workshop
- Participation in Soccer Bot Competition (BRAC University)
- Keynote Speech by Arnab Dasgupta (Google)
- Orientation Program
- Starting of Competitive Programming Bootcamp Fall 2024
- Workshop on Web Development
- Competitive Programming Bootcamp – 1st Support Session
- Workshop on Building a Mobile Application Using Flutter
- Workshop on AI: Empower Your AI Journey with Python
- Special Iftar Gathering at the CSE Department
- Meeting with Respected Alumni of the Department of CSE
- Competitive Programming Contest – April 2025



# FIRST MEETING FALL `24

## First Meeting – Fall '24: Kicking Off the Vision

With the proposal for Fall 2024 officially submitted, the Computer Club held its first meeting of the session to set things in motion. The agenda focused on aligning members with upcoming tasks—club structure reform, constitution finalization, and planning for the seminars, bootcamps, and workshops ahead.

Energy and enthusiasm filled the room as ideas were exchanged and roles were discussed. This meeting marks the beginning of a focused and collaborative journey toward a more structured and impactful semester.

Fall '24 has begun—with purpose and momentum.



## Premier University Computer Club

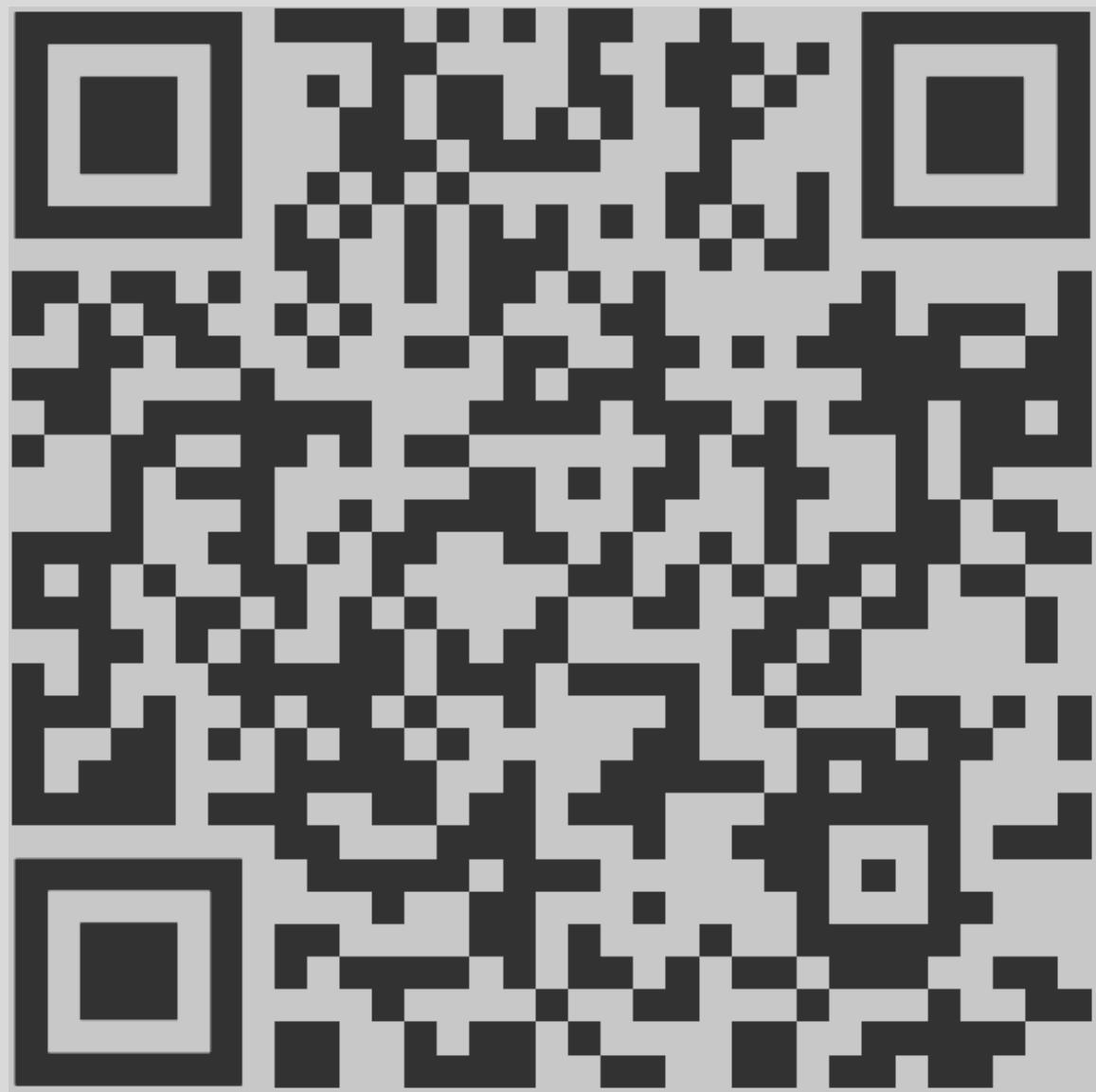
Private group · 627 members



+ Invite Share

To strengthen communication and foster a more connected community, the Computer Club has officially launched a Facebook-based group. This platform will serve as a central hub for announcements, event updates, discussions, and member interactions. It's designed to keep everyone informed and engaged as we move through an exciting Fall '24 session. Members are encouraged to join, contribute, and be part of the ongoing conversation.

JOIN OUR  
FACEBOOK GROUP



# RECRUITMENT OF FALL '24



## 355 JOINED US!





# COMPETITIVE PROGRAMMING JANUARY 25

# COMMITTEE MEMBERS MEETING

## Strategizing for Success: Committee Members Convene

The engine behind every successful club initiative is a strong, united team—and that's exactly what came together during our Committee Members' Meeting. With fresh ideas and shared determination, the leadership sat down to chart the course for Fall '24. From refining internal roles to mapping out timelines for upcoming events, the session was all about turning plans into action. Collaboration was at the heart of every discussion, setting the tone for a semester driven by purpose, teamwork, and a shared vision. The roadmap is ready—and so are we.



# COMMITTEE MEMBERS MEETING WITH FACULTY MEMBER



## Bridging Vision and Guidance: Meeting with Faculty Advisor

Following our internal discussions, the committee members sat down with our respected faculty advisor to present the club's structure, strategic approach, and vision for Fall '24. The meeting served as a crucial checkpoint—aligning our initiatives with academic goals and gaining valuable insights from an experienced mentor. With thoughtful feedback and encouraging support, the session reinforced our direction and added confidence to our roadmap. It was a perfect blend of student leadership and faculty guidance, laying a strong foundation for the semester ahead.



PR

## PREMIER UNIVERSITY CHITTAGONG

Department of Computer Science and Engineering



## PREMIER UNIVERSITY COMPUTER CLUB

1<sup>st</sup> Draft of the Constitution

PREMIER UNIVERSITY COMPUTER CLUB (PUC)

Submitted to

Syed Md. Minhaz Hossain

Associate Professor  
Department of Computer Science and Engineering  
Premier University Chittagong

January 2024

# 1ST DRAFT OF CONSTITUTION





# 1<sup>ST</sup> DRAFT OF PREMIER UNIVERSITY COMPUTER CLUB'S CONSTITUTION



# BANGLADESH ARMY CYBER RAID CTF 2025 RANK : 172



# CHAMPION!

BANDARBAN UNIVERSITY  
CSE FEST - 2025  
COMPETITIVE PROGRAMMING



**PUCC CP  
TEAM AT**



**BANDARBAN  
UNIVERSITY**



# INTRODUCTORY SESSIONS OF WINGS



# INTRODUCTORY SESSIONS OF WINGS



# WHEN DATA MET INTELLIGENCE: A SESSION TO REMEMBER

In an insightful and engaging session, Md. Ataur Rahman Sir took us on a deep dive into the evolving landscape of Data Engineering in the era of Large Language Models (LLMs). Drawing from his global research experience as a Marie Curie Early-Stage Ph.D. Researcher, he shared cutting-edge perspectives shaped by his work with UPC's DTIM Research Group and ULB's WIT Lab. From data pipelines to the intelligence driving LLMs, the webinar was a masterclass in connecting engineering precision with AI innovation—leaving attendees inspired and eager to explore the future of data-driven intelligence.



Md Ataur Rahman (Presenting, annotation)

In-call messages

Let everyone send messages

You can pin a message to make it visible for people who join later. Messages are being recorded with the call.

Ayantha Nandini 10:30 AM  
I want to write a research paper using my computer science background and English as my language background. How can I look for jobs which collaborate both of them? I mean to ask that how can a student having English background with engineering degree look for scholarship positions abroad.

Waseem Ullah Tariq 10:30 AM  
Good Evening Sir, Can we use Object detection with LLMs to detect certain objects? and for both its deploy does we have to annotate Objects, as well as make a LLM from scratch?

Send a message to everyone

Input Output

Try this on these images

Test Photo

Output

Use any object here for better detection. Tap, use it for the object.

Only one object can be detected at a time. Use separate search for different objects.

26

A screenshot of a video conferencing interface. On the left, there's a presentation slide titled "Agentic Object Detection" with a subtitle "An industry-leading research framework that uses neural networks to identify agents, like 'gaming agent' or 'green agent', within a scene. It takes a list of bounding boxes, with no visualizations or annotations, and adds agents to them." Below the slide are sections for "Input" and "Output", each showing a grayscale image of a busy street scene with various vehicles and people. On the right, there's a sidebar titled "In-call messages" showing a list of participants: "2162\_Rayenul\_kader\_Chowdhury", "Dhruba Dey", "Waseem Ullah Tariq", and "69 others". Each participant has a small video thumbnail and a message box. The overall interface is dark-themed.



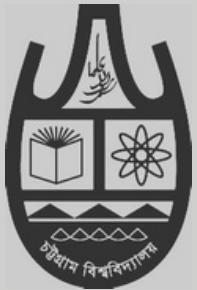
NORTH SOUTH UNIVERSITY



**BLAZING AHEAD!  
TEAM MORS\_STELLA  
SECURES A SPOT  
IN THE FINAL 40 !!!**



**NORTH SOUTH UNIVERSITY (NSU)  
TECH FEST 2025!**



# UNIVERSITY OF CHITTAGONG



# TEAM DUMKETU AT SOCCER BOT COMPETITION



TEAM: PUC\_QUANTUMX

# 24-HOUR BCS - BUET CTF-2025 COMPETITION 68TH RANKED!



# TEAM DURNIBAR AT ROBO SOCCER COMPETITION



# SOUTHERN UNIVERSITY BANGLADESH





# COMPETITIVE PROGRAMMING FEBRUARY 25



# ভাষা ও আনুত্তরণের চেতনায় প্রদ্বাৰ্জনি আন্তর্জাতিক মাতৃভাষা দিবসে হৃদয় থেকে প্রদ্বা



# CELEBRATION OF 14 YEARS OF PUDS

## PUCC WISHES HAPPY BIRTHDAY!



# AUST IUPC 2025 RANKED ON TOP 100!



AHSANULLAH UNIVERSITY  
OF SCIENCE AND TECHNOLOGY



# **SEMINAR ON GAME & VR\_AR\_XR TECHNOLOGY**

**BY**

## **ABID AL AQIB**



# HANDS-ON ARDUINO WORKSHOP



# RANKED 9<sup>TH</sup>



**BRAC  
UNIVERSITY FOR  
Traction অঙ্গুলয়!**

# ARNAB DASGUPTA

# FROM GOOGLE

# G

Cheif Guest:

**MOHAMMAD IFTEKHAR MONIR**

Registrar (Additional Charge)  
Premier University, Chittagong

Key Speaker:

**ARNAB DASGUPTA**

Software Engineer at Google  
Former Senior Software Engineer at  
Samsung Electronics

Guest:

**MD. SHAJIDUL HOSS**

Business Development Manager, National b  
ADN Telecom LTD  
Organizing Socio: CSE Alumni Association, Premier University ICS

**MOHAMMAD N**



Hello PUCC!



# AT PUCC!



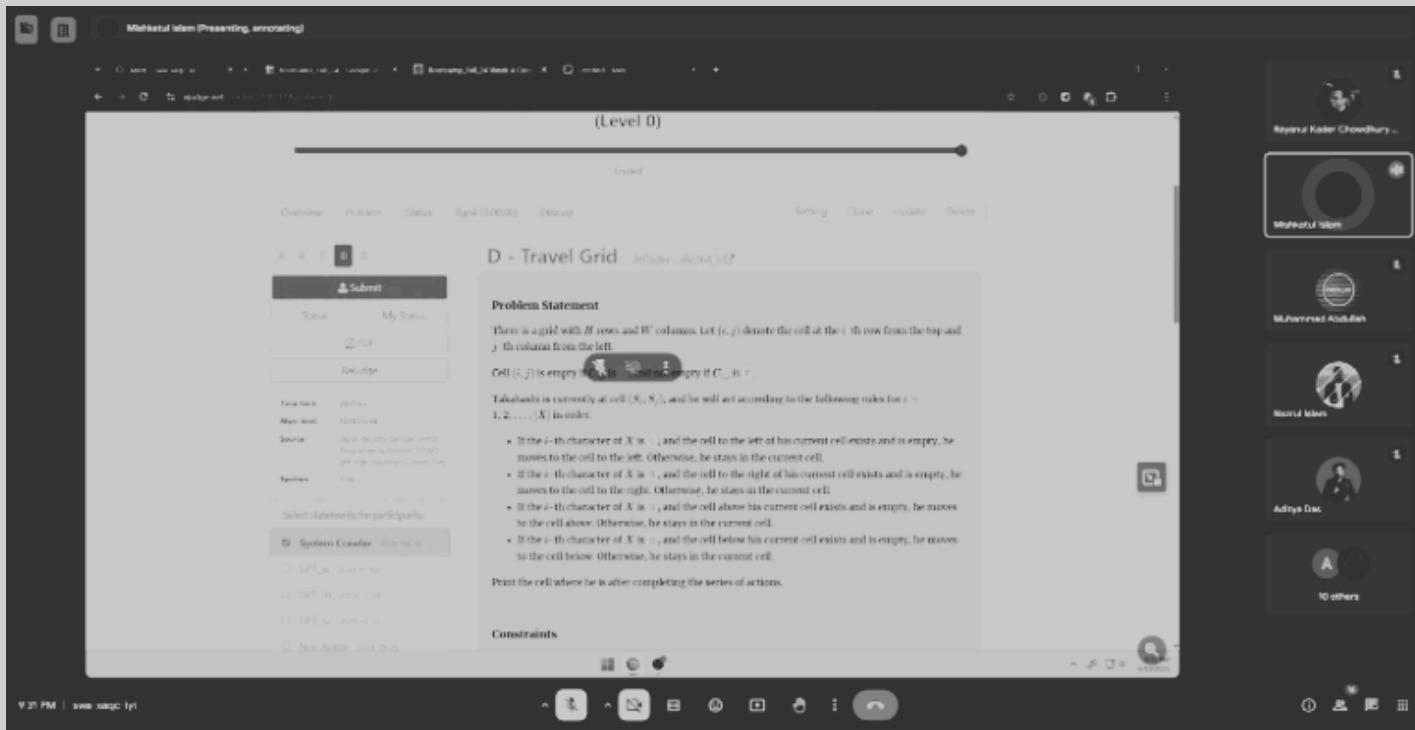
# ORIENTATION PROGRAM FALL 24 SESSION!



Keep Silence

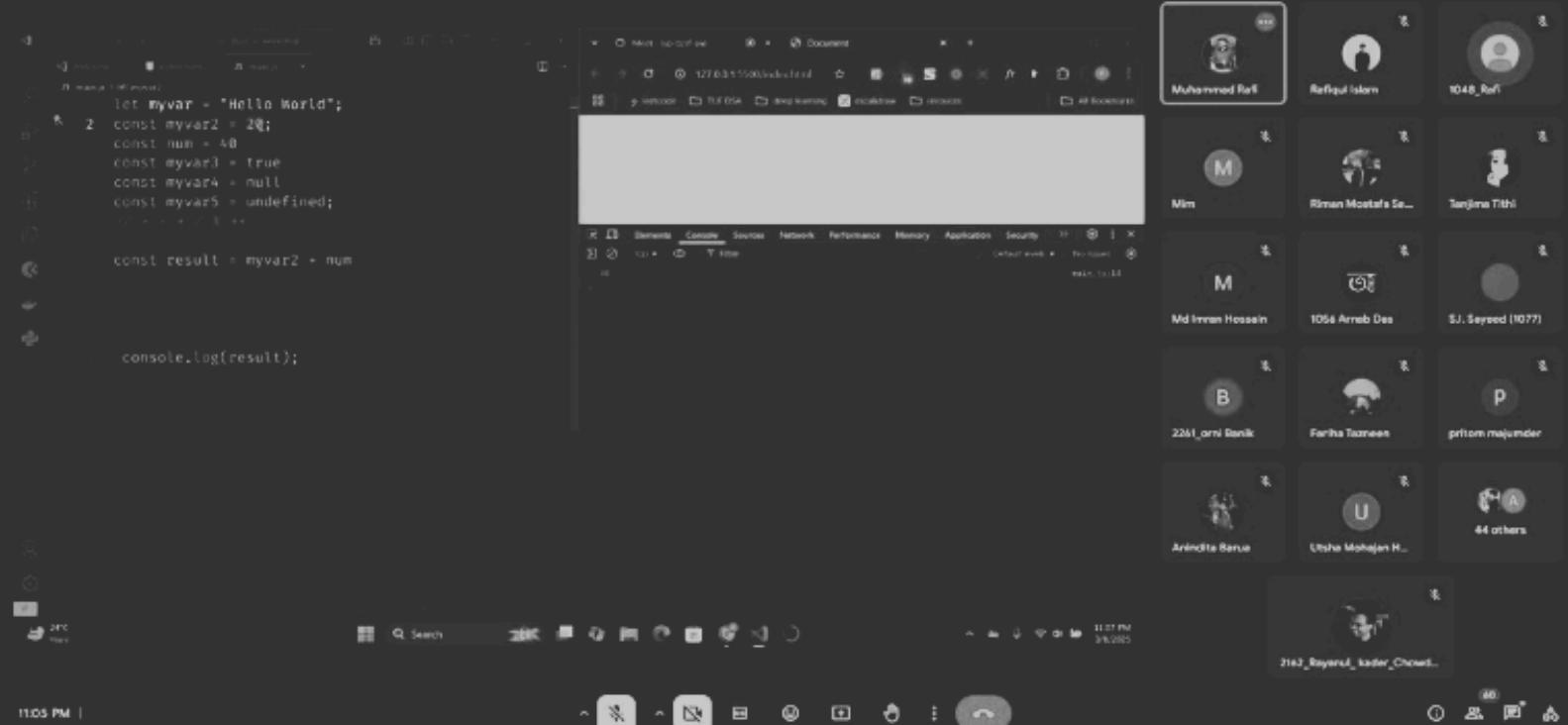
# COMPETITIVE PROGRAMMING MARCH 25

PESARAN UNIVERSITY COMPETITIVE CLUB

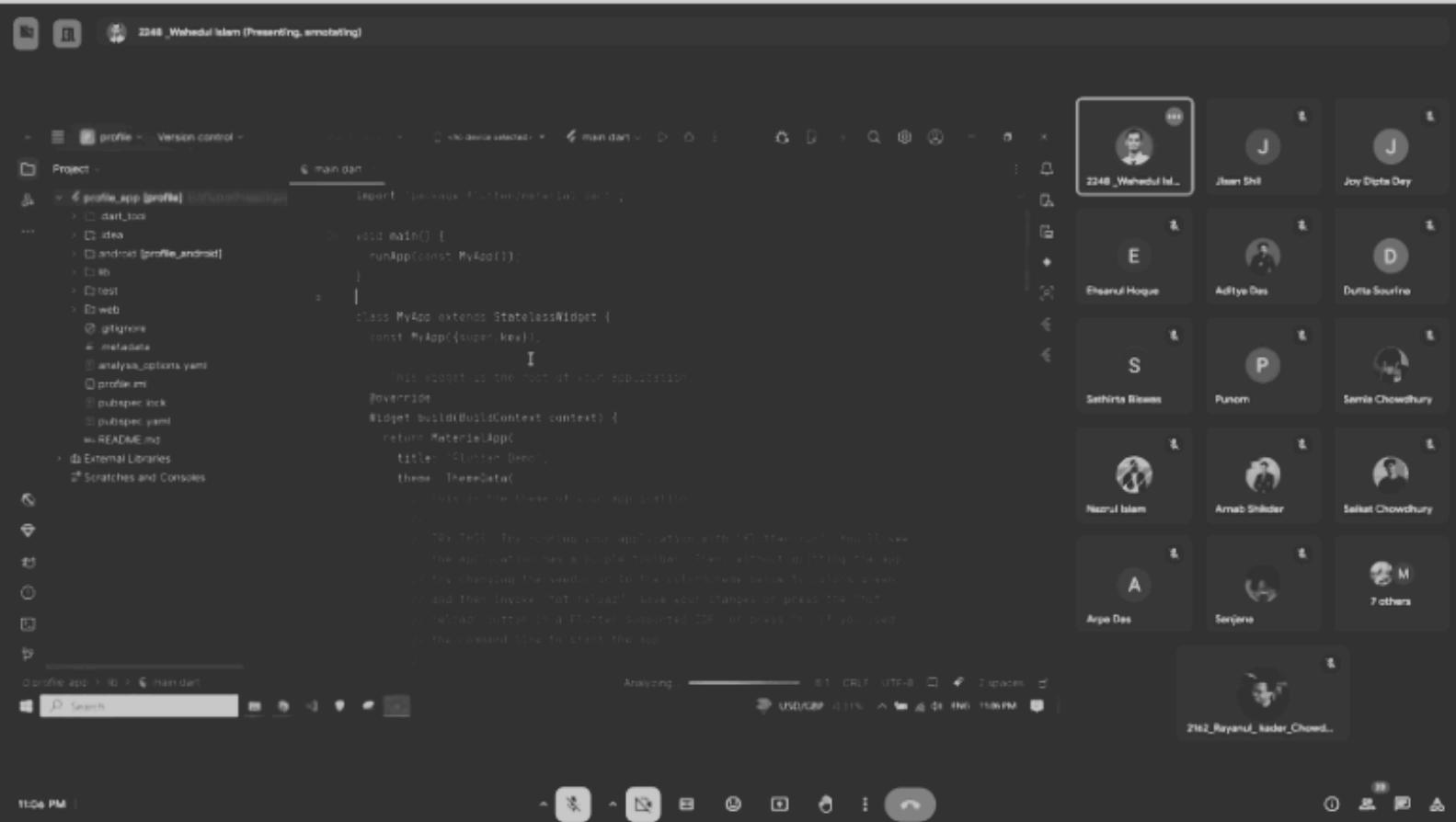


# STARTING OF 70 DAYS LONG!

# COMPETITIVE PROGRAMMING BOOTCAMP



# WORKSHOP ON WEB DEVELOPMENT



# WORKSHOP ON BUILD A MOBILE APPLICATION USING FLUTTER

This screenshot shows a notebook application interface. On the left, there's a file tree with files like 'notebookff2972e2343.ipynb' and 'notebookff2972e2343.ipynb'. The main area displays code snippets and output. A sidebar on the right lists user profiles with initials and names: M (Mohammed Mohiuddin), Dhruba Chowdhury, Tuly Trini, Arma Shikder, S (Shababd), Fahmida Sohana, Kastha Das, R (Premier University Computer...), and 16 others.

# WORKSHOP ON AI

This screenshot shows a Codeforces contest page. It features a sidebar with user profiles: E (Ehsanul Hoque), 2265\_Rohul Amin Sharif\_C, T (Tapas Datta), Nazrul Islam, and A (Ayon Das Gupta). The main content displays a table of 'Current or upcoming contests' and another table for 'Past contests'. The 'Current or upcoming contests' table includes entries for 'XIX Open Olympiad in Informatics - Final Stage, Day 2 (Invited, Online Mirror, IOI rules)' and several Codeforces Round contests (Div. 1, Div. 2, Div. 3, Div. 5, Div. 21, Div. 22). The 'Past contests' table includes an entry for 'XIX Open Olympiad in Informatics - Final Stage, Day 1 (Invited, Online Mirror, IOI rules)'.

# SUPPORT SESSION FOR COMPETITIVE PROGRAMMING BOOTCAMP



# SPECIAL IFTAR GATHERING AT THE CSE DEPARTMENT

\*ORGANIZED BY PUCC



# MEETING WITH RESPECTED ALUMNI OF THE DEPARTMENT OF CSE, PUC



CSE  
ALUMNI  
ASSOCIATION  
PREMIER  
UNIVERSITY

# COMPETITIVE PROGRAMMING

## APRIL 25



PREMIER UNIVERSITY COMPUTER CLUB

Department of  
Computer Science and Engineering  
Premier University Chittagong

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**PUCC**