



# केन्द्रीय माध्यमिक शिक्षा बोर्ड

( शिक्षा मंत्रालय, भारत सरकार के अधीन एक स्वायत्त संगठन )

## CENTRAL BOARD OF SECONDARY EDUCATION

(An Autonomous Organisation Under the Ministry of Education, Govt. of India)



CBSE/DIR/SE/Microsoft/NCC/2023

27.01.2023

Circular No. Skill-20/2023

The Heads of all the Institutions affiliated to CBSE

### Subject: CBSE National Coding Challenge 2023

*Greetings from CBSE!*

This is with reference to the CBSE Notification No. 26/2022 dated 23.04.2022 whereby, CBSE in collaboration with Microsoft had conducted 'CBSE National Coding Challenge 2022' for students of classes VI – VIII providing them an opportunity to showcase their 21<sup>st</sup> century skills to solve some of the real-life issues with technology. A brief report about the CBSE National Coding Challenge 2022 is also annexed for perusal (**Annexure I**).

In view of the overwhelming response received from schools within and outside India, it has been decided to conduct the CBSE National Coding Challenge in 2023 also. It is an excellent opportunity for skilling students in the realm of coding and nurturing ability to solve real life problem for a larger group of students.

In **CBSE National Coding Challenge 2023**, the students of classes VI – VIII are invited to address any of the following **themes** to showcase their coding skills -

- Earth- Protect Biodiversity and Natural Habitats
- Cultural Heritage Preservation
- Accessibility
- Humanitarian action
- Health
- AI for Good

Please refer to **Annexure II** for details and schedule of the **CBSE National Coding Challenge 2023**.

**The last date for registration to participate in this contest is March 10, 2023.**

For any further queries, please contact [cbse\\_ncc@outlook.com](mailto:cbse_ncc@outlook.com)

*Biswajit Saha*

(Dr. Biswajit Saha)

Director (Skill Education)

**Enclosures:** **Annexure I:** Brief report of CBSE National Coding Challenge 2022.

**Annexure II:** Details & Schedule of the CBSE National Coding Challenge 2023.



'शिक्षा सदन', 17, राज़ एवेन्यू, इंस्टीटूशनल एरिया, नई दिल्ली-110002  
'Shiksha Sadan', 17, Rouse Avenue, Institutional Area, New Delhi – 110002





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**Copy to the respective Heads of Directorates, Organizations and Institutions as indicated below with a request to disseminate the information to all the schools under their jurisdiction:**

1. The Commissioner, Kendriya Vidyalaya Sangathan, 18, Institutional Area, Shaheed Jeet Singh Marg, Delhi - 110016
2. The Commissioner, Navodaya Vidyalaya Samiti, B-15, Sector-62, Institutional Area, Noida – 201309
3. The Director of Education, Directorate of Education, Govt. of NCT of Delhi, Old Secretariat, Delhi - 54
4. The Director of Public Instructions (Schools), Union Territory Secretariat, Sec. 9, Chandigarh – 160017
5. The Director of Education, Govt. of Sikkim, Gangtok, Sikkim – 737101
6. The Director of School Education, Govt. of Arunachal Pradesh, Itanagar – 791111
7. The Director of Education, Govt. of Andaman & Nicobar Islands, Port Blair – 744101
8. The Director, Central Tibetan School Administration, ESSESS Plaza, Community Centre, Sec. 3, Rohini
9. The Secretary, Sainik Schools Society, Room No.101, D-1 Wing, Sena Bhawan, New Delhi – 110001
10. The Additional Director General of Army Education, A-Wing, Sena Bhawan, DHQ, PO, New Delhi – 01
11. The Secretary AWES, Integrated Headquarters of MoD (Army), FDRC Building No. 202, Shankar Vihar (Near APS), Delhi Cantt – 110010
12. The Secretary Eklavya Model Residential Schools (EMRS), Ministry of Tribal Affairs, Government of India
13. The Chairman, Odisha Adarsha Vidyalaya Sangathan, N-1/9, Near Doordarshan Kendra, PO Sainik School Nayapalli, Bhubaneswar, Odisha-751005
14. The Deputy Secretary to Chairperson, CBSE - for kind information of the Chairperson, CBSE
15. All the Heads of Department of the Board
16. All the Regional Directors/Regional Officers/Head-COEs, CBSE with the request to send this circular to all the Heads of the affiliated schools of the Board in their respective regions for compliance
17. Head (Media & Public Relations), CBSE
18. Assistant Secretary (IT), CBSE, Rouse Avenue with the request to upload this notification on the CBSE Academic website
19. Incharge, Hindi Cell, CBSE HQ – for Hindi Translation of this notification

**Director (Skill Education)**



'शिक्षा सदन', 17, राऊज़ एवेन्यू, इंस्टीटूशनल एरिया, नई दिल्ली-110002  
'Shiksha Sadan', 17, Rouse Avenue, Institutional Area, New Delhi – 110002





# CBSE NATIONAL CODING CHALLENGE 2022

# ABOUT THE CODING CHALLENGE

National Coding Challenge 2022 was an opportunity provided by CBSE in association with Microsoft for students of classes 6th to 8th, to showcase their 21<sup>st</sup>-century skills to solve some of the real-life issues with technology. It was a platform for students to learn about various real-life issues prevailing in society and work out an innovative solution to address the problem related to the theme, using their coding skills.

Coding, sometimes called computer programming, is how we communicate with computers. With AI becoming predominant in our society, this coding challenge helped our children to stay on track with evolving technologies.

## THEMES



**Protect Biodiversity and  
Natural Habitats**



**Accessibility**



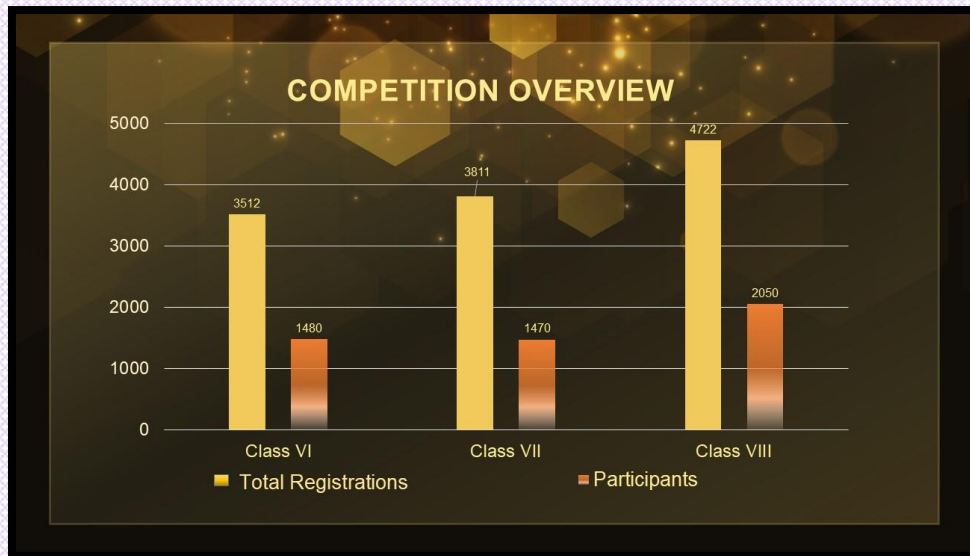
**Earth and Cultural  
Heritage Preservation**

**“National Coding Challenge 2022 helped students to think out of the box to solve real-world problems with Coding.”**



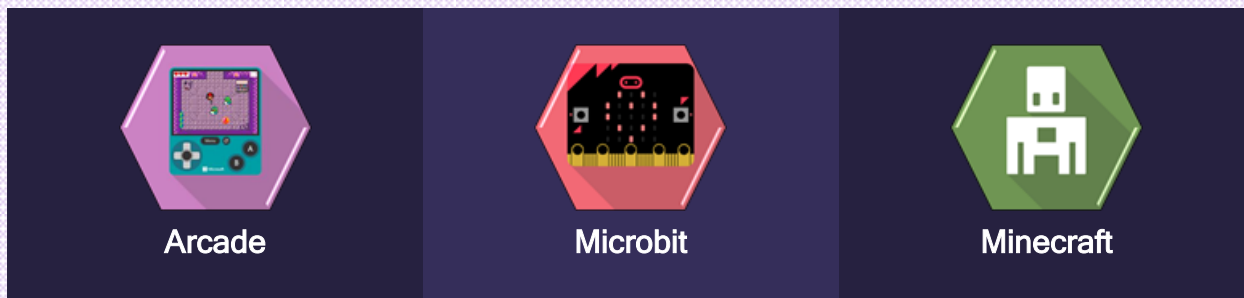
# REGISTRATIONS

More than 12,000 students registered from different regions of the country out of which more than 2,300 students submitted their final projects.



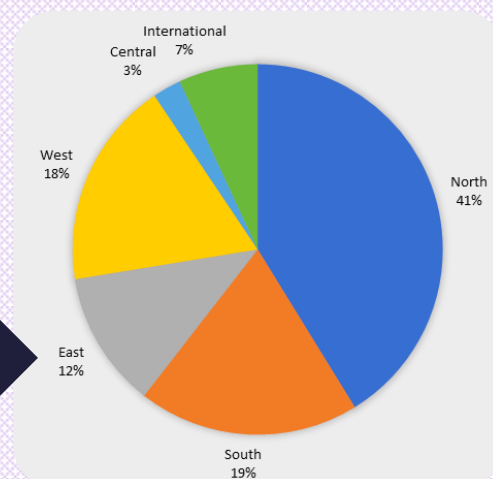
# PROJECT SUBMISSIONS

Students submitted their final projects, using one of the following Platforms -



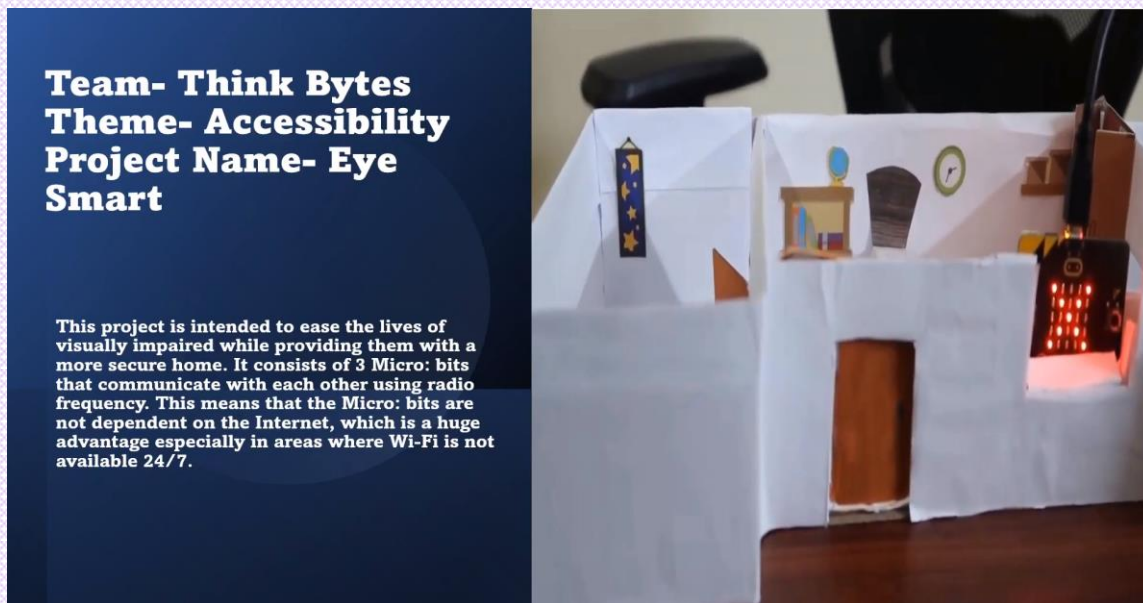
Submissions came from all different regions of India. (North, South, East, West and Central) and abroad.

*Region-wise breakdown of Submitted Projects*



# WINNERS - TOP 30

1. Winner of the National Coding Challenge 2022 - Team Think Bytes  
Vibgyor High School, Bangalore, Karnataka  
Theme: Accessibility from the South Zone.  
Link: <http://bitly.ws/wmAd>



2. First Runner-Up 1 - Team DIAMOND  
Sivananda Rajaram Senior Secondary School  
Theme: Accessibility  
Link: <http://bitly.ws/wmAn>



3. **First Runner-Up 2 - Team Coder2**  
 Mount Carmel School, Dwarka, New-Delhi  
 Theme: Accessibility  
 Link: <http://bitly.ws/wmAh>



4. **Second Runner-Up 1 - Team TechnoNatureSavers**  
 Krishna Public School, Chhattisgarh  
 Theme: Protect Biodiversity and Natural Habitats  
 Link: <http://bitly.ws/wmAt>

**Team-  
Techno Nature Savers**  
**Theme-  
Protection of Biodiversity  
and Natural Habitat**  
**Project Name-  
Soil's fertility detector  
system**

The farmers face the problem of watering in soil that how much water should be given to soil for good growth of plants, so our project is inspired by this problem. Our model will detect the moisture of the soil and accordingly water the soil and fulfill the water requirement of it.

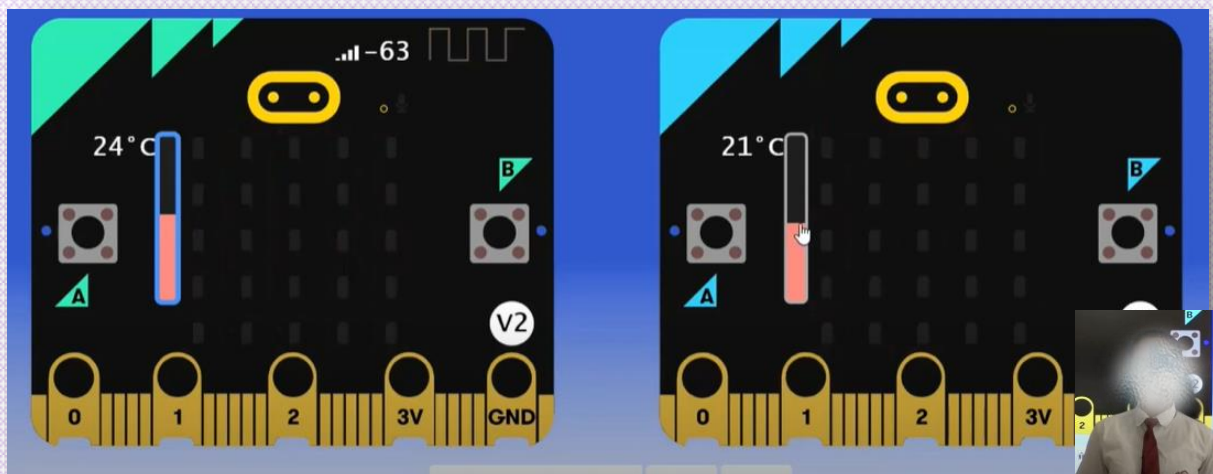
So, we propose a model that can not only save the water, but it increases the productivity of the crops by maintaining optimum moisture level in soil.



5. **Second Runner-Up 2 - Team Sparta Scriptans**  
 Spartan Exclusive School, Tamil Nadu  
 Theme: Protect Biodiversity and Natural Habitats  
 Link: <http://bitly.ws/wmAw>



6. **Team BONFIRE BREAK**  
 Krishna Public School, Chhattisgarh  
 Theme: Protect Biodiversity and Natural Habitats  
 Link: <http://bitly.ws/wmAA>





## 7. Team Bytecode Velocity

Shiksha Niketan, Jamshedpur, Jharkhand

Theme: Earth and Cultural Heritage Preservation

Link: <http://bitly.ws/wmAE>



## 8. Team CODE CHAMPS

Delhi Private School, Sharjah, UAE

Theme: Protect Biodiversity and Natural Habitats

Link: <http://bitly.ws/wmAJ>

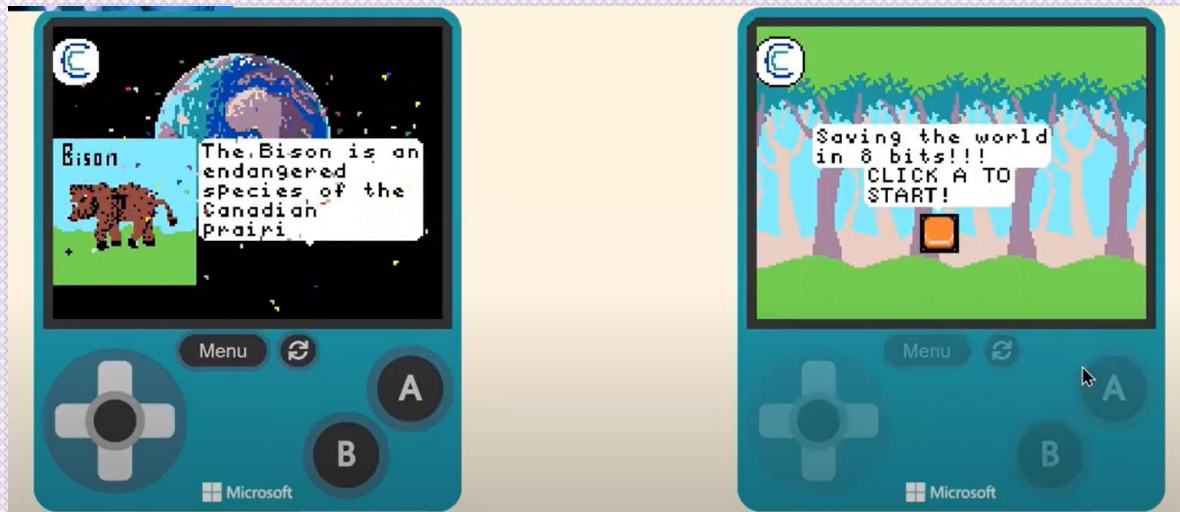


## 9. Team Code Crusaders

Delhi Private School, Sharjah, UAE

Theme: Protect Biodiversity and Natural Habitats

Link: <http://bitly.ws/wmAM>



## 10. Team Codeguru

Shree Niketan Patasala, Chennai, Tamil Nadu

Theme: Protect Biodiversity and Natural Habitats

Link: <http://bitly.ws/wmAS>





## 11. Team Coding Brigade

Indian International School (IISJ), Tokyo, Japan

Theme: Protect Biodiversity and Natural Habitats

Link: <http://bitly.ws/wmAV>

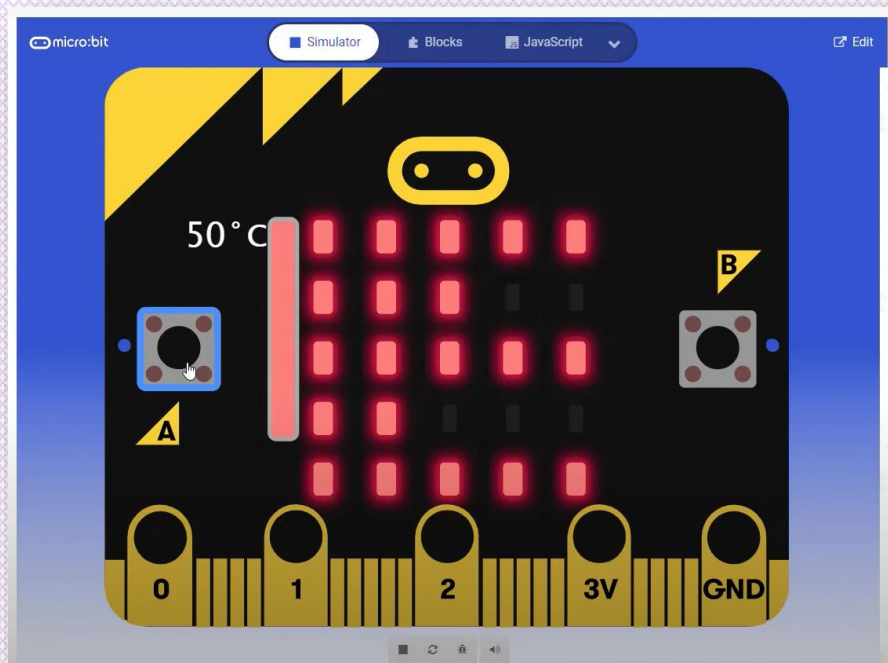


## 12. Team CODING BRIGADIERS

DAV Model School IIT Kharagpur, West Bengal

Theme: Protect Biodiversity and Natural Habitats

Link: <http://bitly.ws/wmAX>



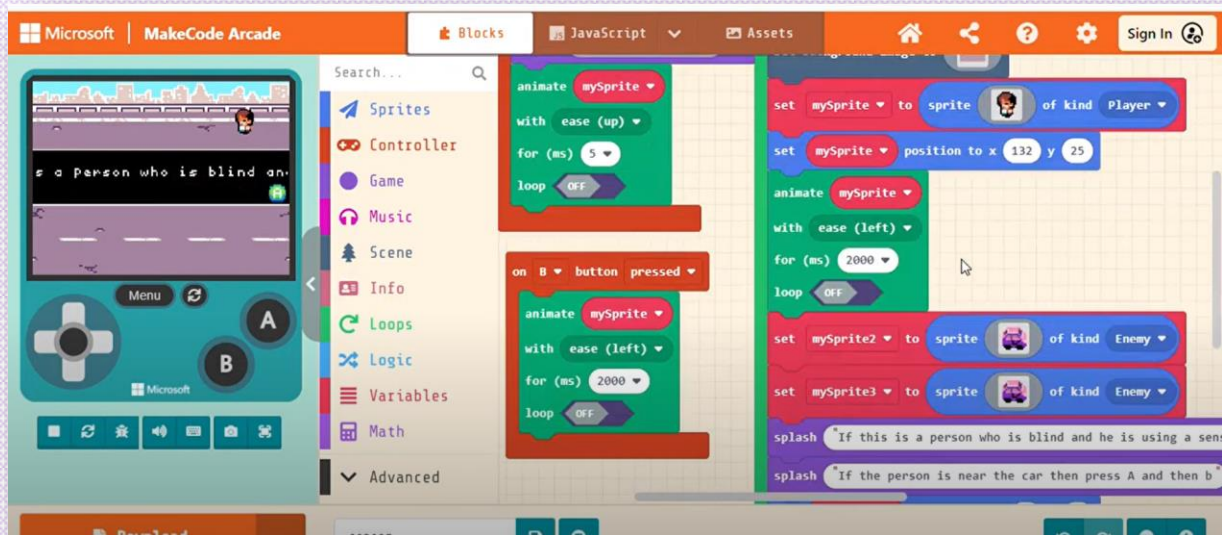


### 13. Team Coding Expert

DAV Model School IIT Kharagpur, West Bengal

Theme: Accessibility

Link: <http://bitly.ws/wmAZ>

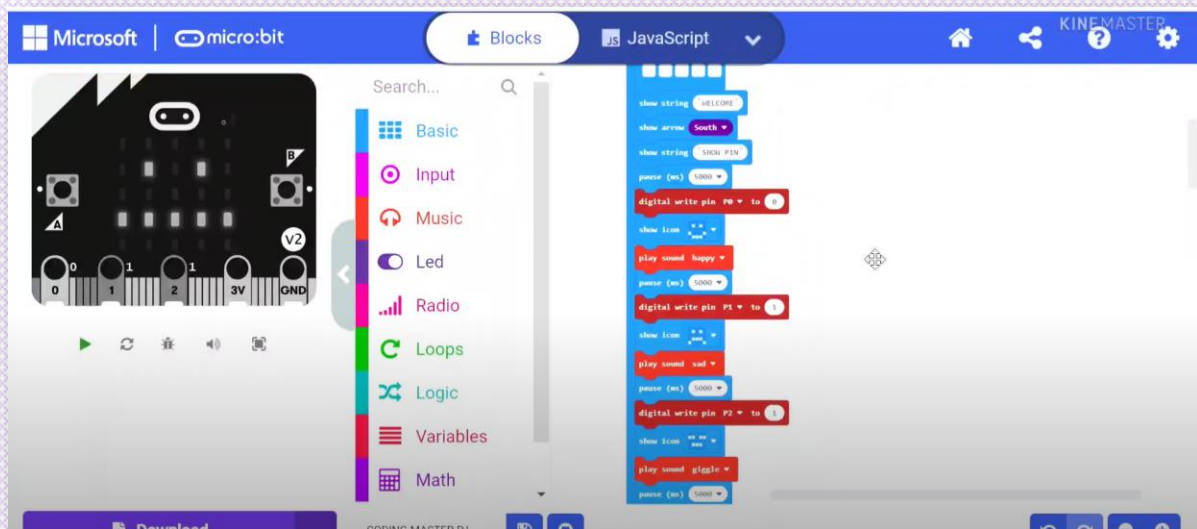


### 14. Team Coding Masters

Kendriya Vidyalaya no 4 ONGC, Vadodara, Gujarat

Theme: Accessibility

Link: <http://bitly.ws/wmB3>

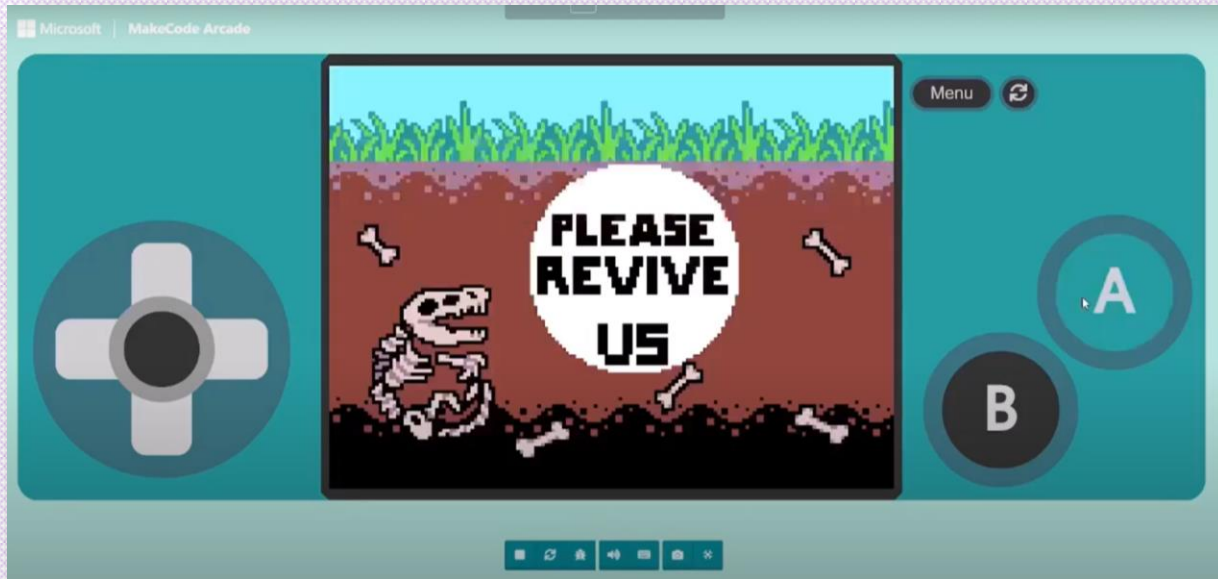


## 15. Team DenKen Chronicles

Delhi Public School, Patna, Bihar

Theme: Protect Biodiversity and Natural Habitats

Link: <http://bitly.ws/wmB5>

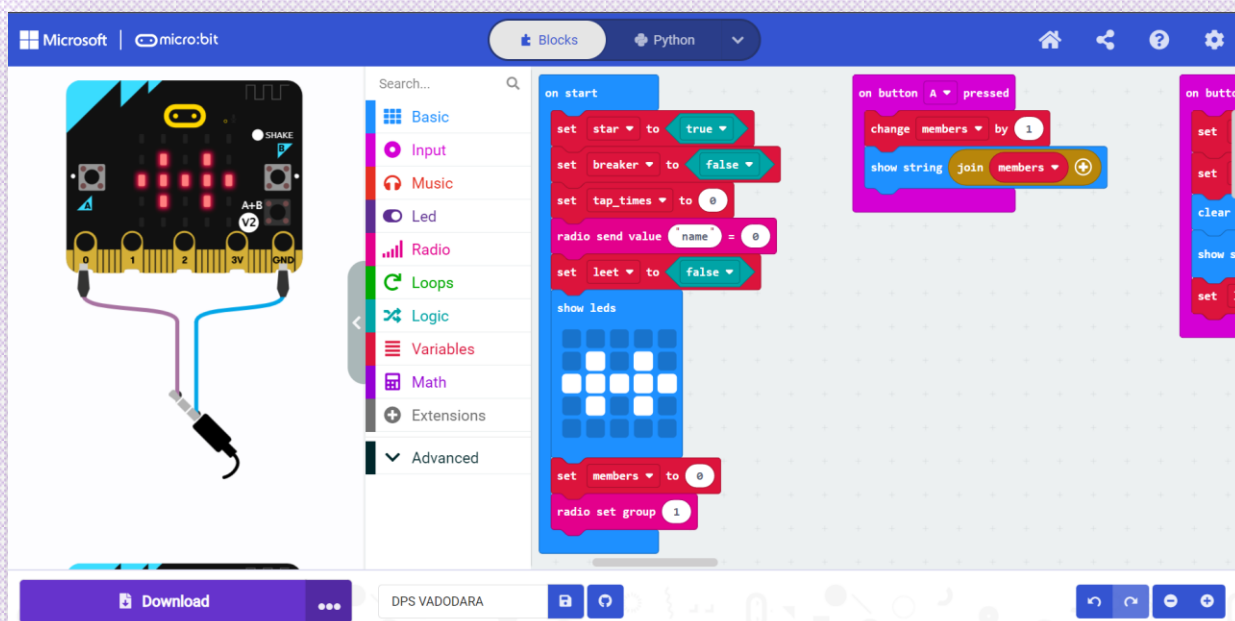


## 16. Team DPS Vadodara

Delhi Public School Vadodara, Gujarat

Theme: Earth and Cultural Heritage Preservation

Link: No Video



## 17. Team GENERIC GENIUS

Brilliant Public School, Bilaspur, Chhattisgarh

Theme: Protect Biodiversity and Natural Habitats

Link: <http://bitly.ws/wmB8>



## 18. Team GUIS FIRE TEAM

GEMS United Indian School, Abu Dhabi, UAE

Theme: Protect Biodiversity and Natural Habitats

Link: <http://bitly.ws/wmBb>





## 19. Team Gyanodian Techies - 2

Gyan Mandir Public School, Narayana Vihar, Delhi

Theme: Accessibility

Link: <http://bitly.ws/wmBe>



## 20. Team Icon Biodiversity

St. Anthony's Secondary School, Faridabad, Haryana

Theme: Earth and Cultural Heritage Preservation

Link: <http://bitly.ws/wmBj>



## 21. Team LPSCODEWARRIORS

Leaders Private School, Sharjah, UAE

Theme: Protect Biodiversity and Natural Habitats

Link: <http://bitly.ws/wmBm>

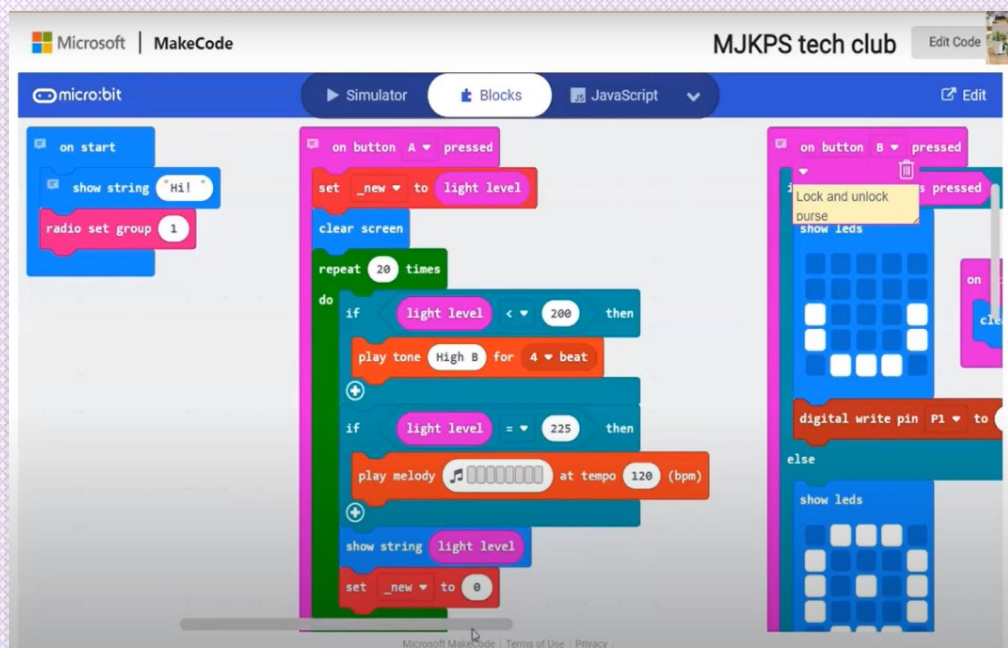


## 22. Team MJKPS TECH CLUB

Mata Jai Kaur Public School, Ashok Vihar, Delhi

Theme: Accessibility

Link: <http://bitly.ws/wmBr>





### 23. Team Mystic Gait

Kamla Nehru Public School, Phagwara, Punjab

Theme: Accessibility

Link: <http://bitly.ws/wmBx>



### 24. Team Preserve\_2\_Conserve

Brilliant Public School, Bilaspur, Chhattisgarh

Theme: Protect Biodiversity and Natural Habitats

Link: <http://bitly.ws/wmBz>





## 25. Team SOLUTION MAKERS

DAV Model School IIT Kharagpur, West Bengal

Theme: Protect Biodiversity and Natural Habitats

Link: <http://bitly.ws/wmBC>



## 26. Team SPS Rangers

Singhania Public School, Tapi, Gujarat

Theme: Protect Biodiversity and Natural Habitats

Link: <http://bitly.ws/wmBG>

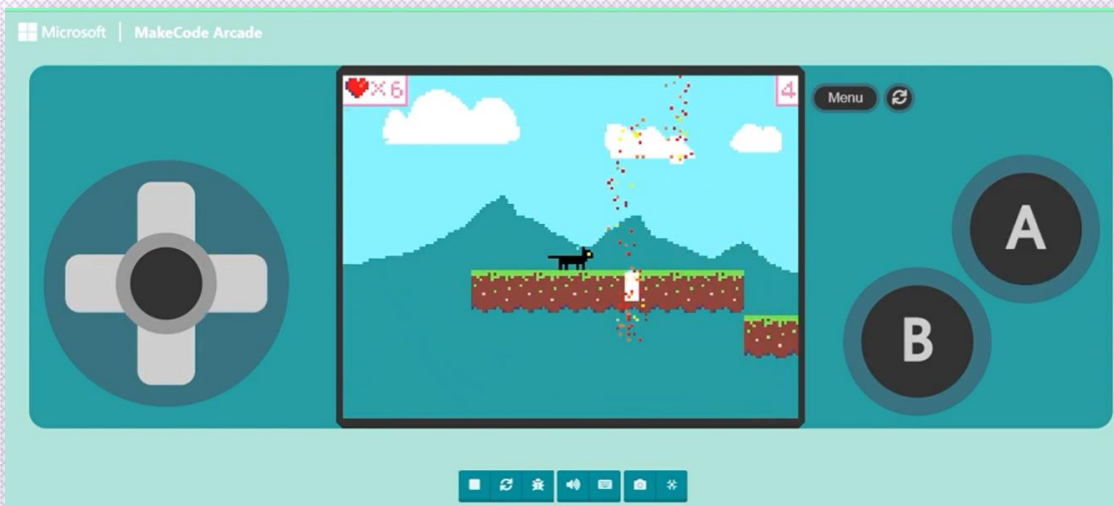


## 27. Team STROMS

Brilliant Public School, Bilaspur, Chhattisgarh

Theme: Protect Biodiversity and Natural Habitats

Link: <http://bitly.ws/wmBJ>

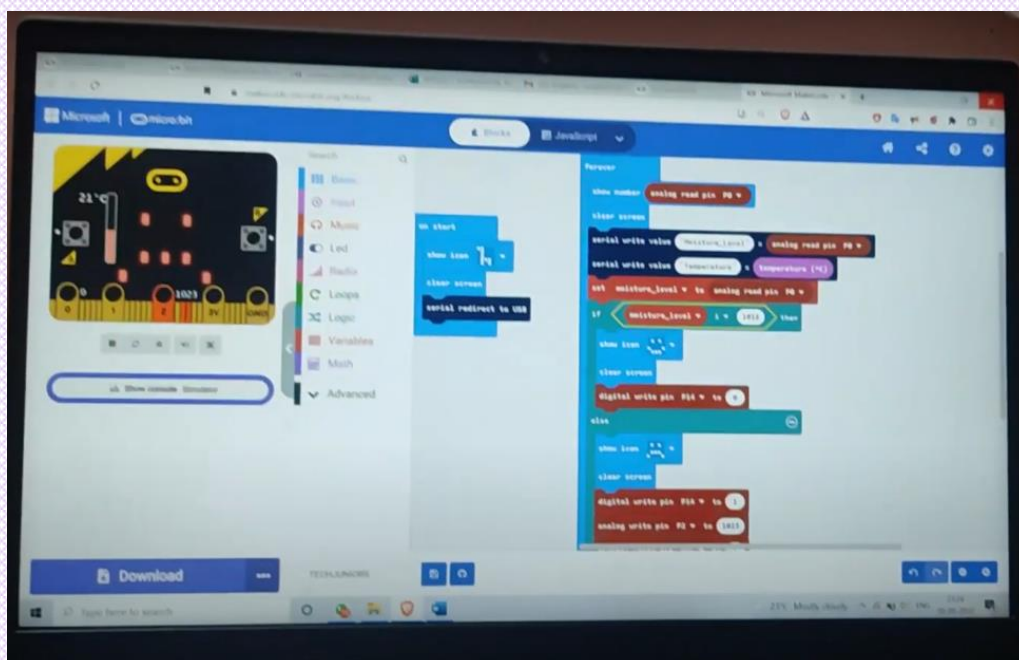


## 28. Team TechJuniors

Kendriya Vidyalaya AFS Yelahanka, Bangalore, Karnataka

Theme: Protect Biodiversity and Natural Habitats

Link: <http://bitly.ws/wmC5>

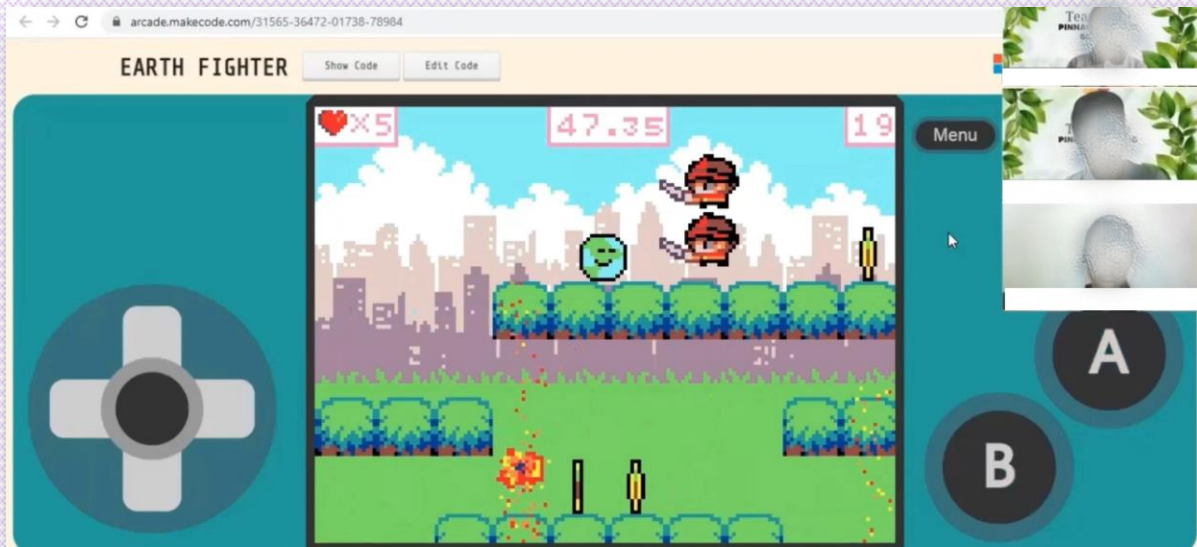


## 29. Team Trio

Pinnacle Public School, Ahmedabad, Gujarat

Theme: Protect Biodiversity and Natural Habitats

Link: <http://bitly.ws/wmBL>

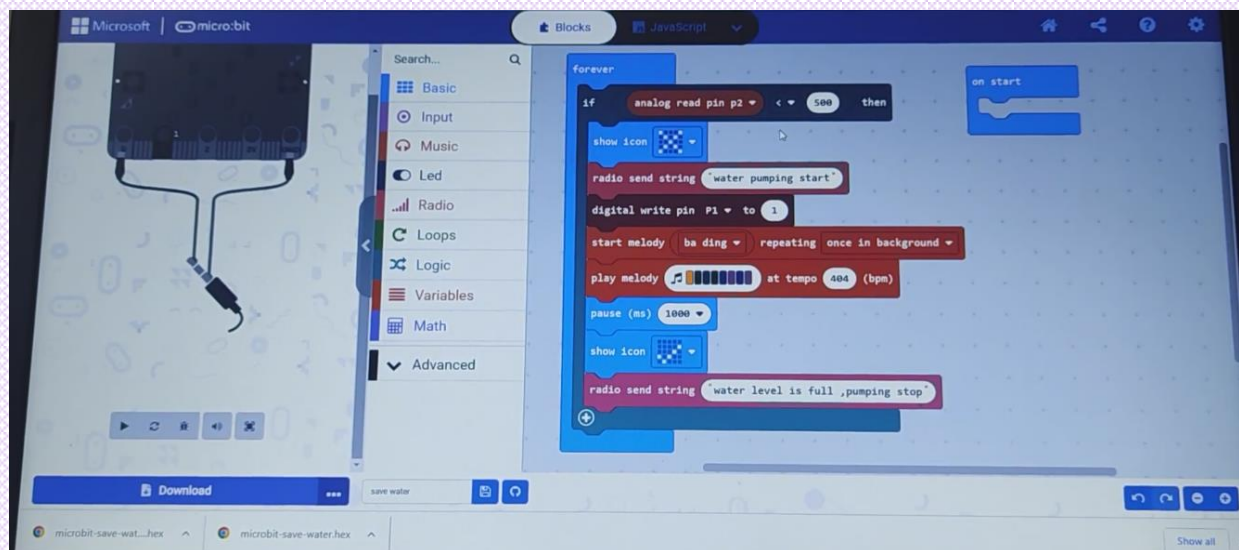


## 30. Team Water Saviour

Jindal Vidya Mandir, Ratnagiri, Maharashtra

Theme: Protect Biodiversity and Natural Habitats

Link: <http://bitly.ws/wmC8>





# CBSE - NATIONAL CODING CHALLENGE 2023

IN COLLABORATION WITH MICROSOFT

## REGISTRATION OPEN

[Click here to](#)

[REGISTER NOW >](#)



## About **NCC** (National Coding Challenge)

National Coding Challenge is an opportunity provided by CBSE in association with Microsoft for students of classes 6th to 8th, to showcase their 21st-century skills to solve some of the real-life challenges using technology.

# Why National Coding Challenge

With the immense success of National Coding Challenge 2022. We have come up with NCC 2023.

It is a platform for students to learn about various real-life issues prevailing in society and work out an innovative solution to address the problem related to the theme, using their coding skills.

## National Coding Challenge **THEMES**



**Earth - Protect Biodiversity and Natural Habitats**



**Accessibility**



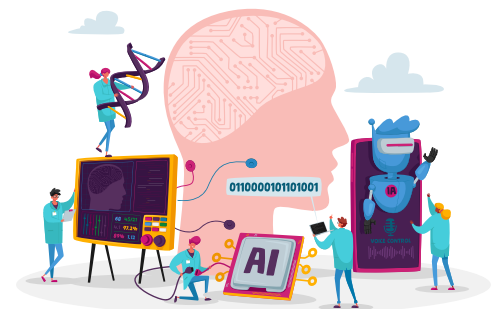
**Cultural Heritage Preservation**



**Humanitarian action**



**Health**



**AI for Good**

WHO?

# ELIGIBILITY

- ✓ Students of Classes 6th, 7th & 8th, who are enrolled in a school, are eligible.
- ✓ Teams can include a minimum of one (1) student and a maximum of four (4) students from the same school OR different schools. Each team of students must have a faculty member registered as well.
- ✓ All members of the team should belong to the same grade or class.
- ✓ Each team must have access to at least one (1) Desktop/laptop with good internet connectivity.

# PARTICIPATION GUIDELINES

HOW?

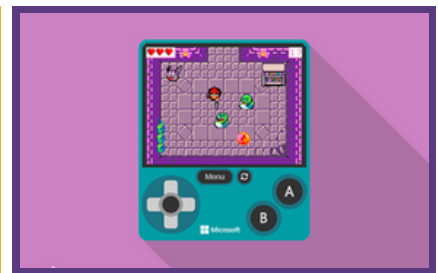
- ✓ Each team must appoint a faculty member as SPOC (Single Point of Contact) and decide the team's name. Each student should be a member of one team only.
- ✓ The SPOC must complete the registration process.
- ✓ Upon successful registration, access to the contest resources will be shared on the registered email ID.
- ✓ Each SPOC must submit their team's submission(s) at the provided website link with the email ID that was used for registration.
- ✓ Projects are to be submitted using any one of the following Microsoft Platforms:



**Minecraft**



**MakeCode for micro:bit**  
[microbit.org](https://microbit.org)



**Arcade**  
<https://arcade.makecode.com>



# SCHEDULE

WHEN?



## Registration Open

[REGISTER NOW >](#)

National Coding Challenge 2023



## Contest Resources

Contest Resources shall be shared upon Registration



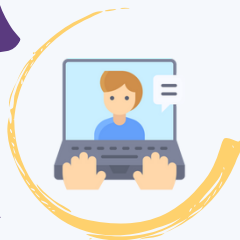
## Project Submission

Till 15th March 2023



## Result for Round 1 Regional

April 2023



## Video Presentation of National Qualifiers

April/May 2023



## National Winner Announcement

June 2023

# RECOGNITIONS



## Trophies

Trophies will be given to the top **3** teams.



## Winner Certificates

Certificates will be given to the **top 30** winning teams.



## Shout-out on official website

Names of **TOP 30** teams will be published on the official website.



# JUDGING CRITERIA

## Judging criteria includes

1. Concise knowledge and understanding
2. Clear theme-centric solutions
3. Originality and creativity
4. Team's learning as part of their involvement
5. Relevance and connection to the theme
6. Final projects

<b>Evaluation Matrix</b>	<b>1 Point</b>	Low Impact
	<b>2 Points</b>	Medium Impact
	<b>3 Points</b>	High Impact
	<b>4 Points</b>	Exemplary

## CONTACT US

Email: [cbse\\_ncc@outlook.com](mailto:cbse_ncc@outlook.com)

Website: [Click Here](#)

If the above link doesn't work, kindly copy paste link given below in your browser  
<https://juanatech.com/coding-challenge/>