

Traveller's Transpiler

Problem Statement

The teams are expected to create a program in the language of their choice that converts any given code of [Super-Stack](#) esolang to a code of [IITK-Traveller](#).

Useful Links:

IITK-Traveller Documentation: <https://iitk-traveller-docs.netlify.app>

IITK-Traveller IDE: <https://traveller.pclub.in/>

Super-Stack Documentation: https://esolangs.org/wiki/Super_Stack!

Super-Stack IDE: <https://tio.run/#superstack>

Expected Deliverables

- Code Submission
- Detailed Report/Documentation

Submission Deadline

Glider Submission: 18:00 Hrs, 4th April 2023

Further communications regarding the submission shall be done via the respective channels.

Team Structure

A team size of maximum 4 students is allowed. Each team must have *two UGY22* and *one UGY21* student.

Also, maximum two teams from each pool are allowed to participate in this event

Features to Include & Evaluation Metric

All the commands of the super stack language except and, or, xor, not, nand and random are basic features. And, or, xor, nand, nor and random come under advanced features.

Implementation of Basic Features

(30% marks)

Implementation of Advanced Features

(20% marks)

The basic features if implemented correctly, will be run on certain benchmark codes and the sum total of the lines of code of IITK Traveller produced in the output for all those benchmark will be used for further evaluation using the following formula:

(Minimum Lines of Code generated among all Teams / Lines of Code generated by the Team) * 30

Similar evaluation will be done for advanced features if implemented correctly

(30% marks)

(20% marks)

