**Buildathon Project: Team “FLUX”**

**Title: “Infix to Postfix Converter”**

**OBJECTIVE:**

Infix to Prefix and Postfix conversion is a bit tricky concept for the students to understand. Analysing their problem, we have created a web page that inputs the Infix expression, converts and displays the corresponding Prefix and Postfix expressions. We will be using ‘Stack’ Data Structure using JavaScript language to convert the Infix expression given by the user to Prefix and Postfix expressions.

**TEAM DETAILS**

**Name of Mentors:** Vivek Kashyap Sir, Vivek KumarSir, Ankita Rani Ma’am

**Team Leader Name :** Pranav Kushawaha

**Team Members Details**

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| **Sr. No.** | **Name** | **Branch** | **Year** |
| 1 | Pranav Kushawaha | Computer Science & Engineering | 2nd Year |
| 2 | Sanskar Chaubey |
| 3 | Sagar Mishra |
| 4 | Kriti Srivastava |
| 5 | Vidhi Mishra |

**PARTS OF THE PROJECT:**

Since the project has the least complexity and runs on a single page, therefore it doesn’t have any other sub-parts.

**TECH STACK USED:**

**React:** React is a declarative, efficient, and flexible JavaScript library for building user interfaces. It lets us compose complex UIs from small and isolated pieces of code called “components”. It is created by Facebook. It’s fast, scalable, flexible, powerful, and has a robust developer community that’s rapidly growing.

**PROJECT DESCRIPTION:**

In our single page project, we have the following structure:

* An input text box to input the Infix Expression.
* A Submit button.
* A Reset button.

After typing the Infix Expression in the input field and clicking on the Submit button, we get the required Prefix and the Postfix Expression. We can also reset our Infix Expression too with the help of the Reset button.

**PROJECT GITHUB LINK:**

Link is as follows: <https://github.com/codebiet/infix_to_postfix_-_prefix>

**DEMO VIDEO:**

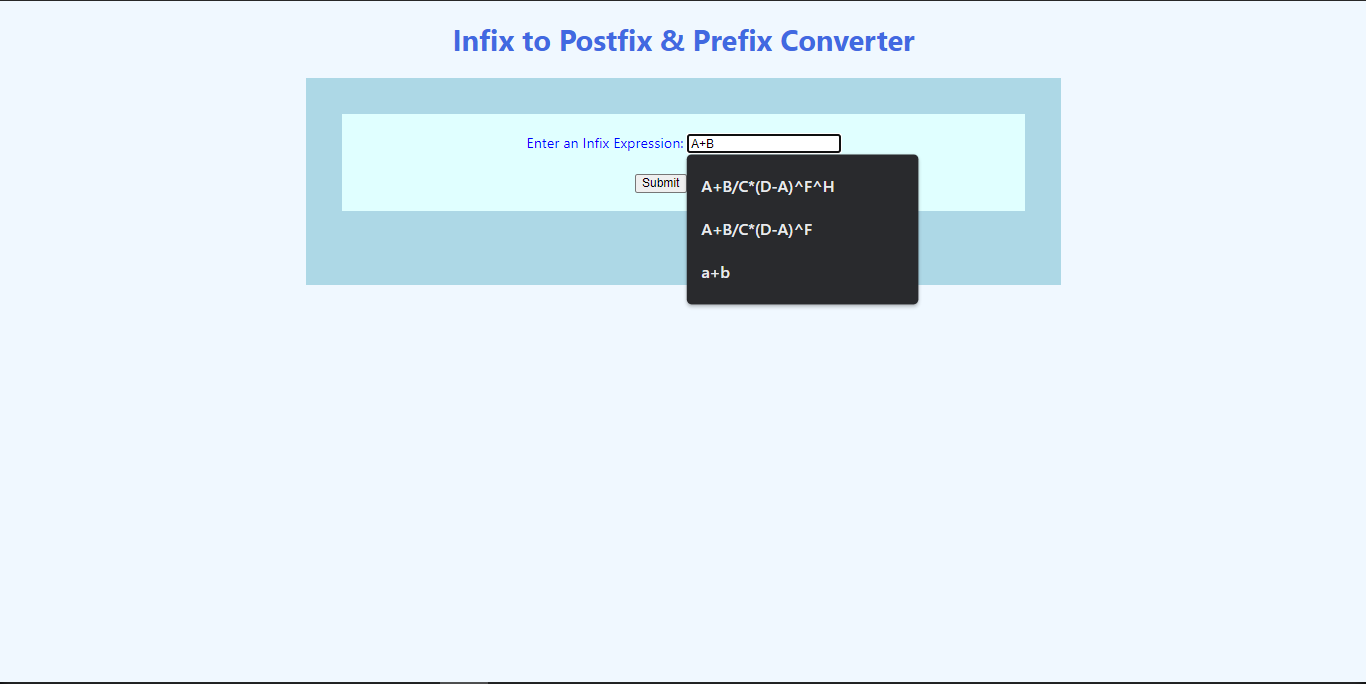
Link is as follows: [Video Link](https://drive.google.com/file/d/1tmXNQLYPYi_evZ8X_49AErZkEVvGhKMg/view?usp=sharing)

**REFERENCES:**

[1] https://reactjs.org/tutorial/tutorial.html

**SCREENSHOTS:**

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