- 4. Programmer's use STACK for implementing many popular algorithms in data structures like:
 - a. Tree Traversal Algorithms (Inorder, Preorder, Postorder)
 - b. Graph Traversal Algorithm(DFS)
 - c. Many sorting & searching algorithms
- 5. Stack is also used by compilers internally for converting an expression from INFIX form to POSTFIX or PREFIX form

Expression

Fw ex : 2+3

a 75 x = y

Converting Injix To Postyix

$$\frac{\int_{\text{n,jix}}}{\Delta} + \frac{B}{BC*}$$

$$\begin{array}{c|c}
T_{\text{mix}} & \underline{A} & \underline{\$} & \underline{B} & / & \underline{C} - \underline{D} \times \underline{E} & |\underline{F} + \underline{G}| \\
\hline
\Delta B & \underline{A} & / & \underline{C} - \underline{D} \times \underline{E} & |\underline{F} + \underline{G}| \\
\Delta B & \underline{A} & \underline{C} & - \underline{D} \times \underline{E} & |\underline{F} + \underline{G}| \\
\Delta B & \underline{C} & - \underline{D} \times \underline{E} & |\underline{F} + \underline{G}| \\
\Delta B & \underline{C} & - \underline{D} \times \underline{E} & |\underline{F} + \underline{G}| \\
\Delta B & \underline{C} & - \underline{D} \times \underline{E} & |\underline{F} + \underline{G}| \\
\Delta B & \underline{C} & \underline{D} \times \underline{E} & |\underline{F} - \underline{G}| \\
\Delta B & \underline{C} & \underline{D} \times \underline{E} & |\underline{C} - \underline{D} \times \underline{E}| \\
\Delta B & \underline{C} & \underline{D} \times \underline{E} & |\underline{C} - \underline{D} \times \underline{E}| \\
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