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Stack in Java

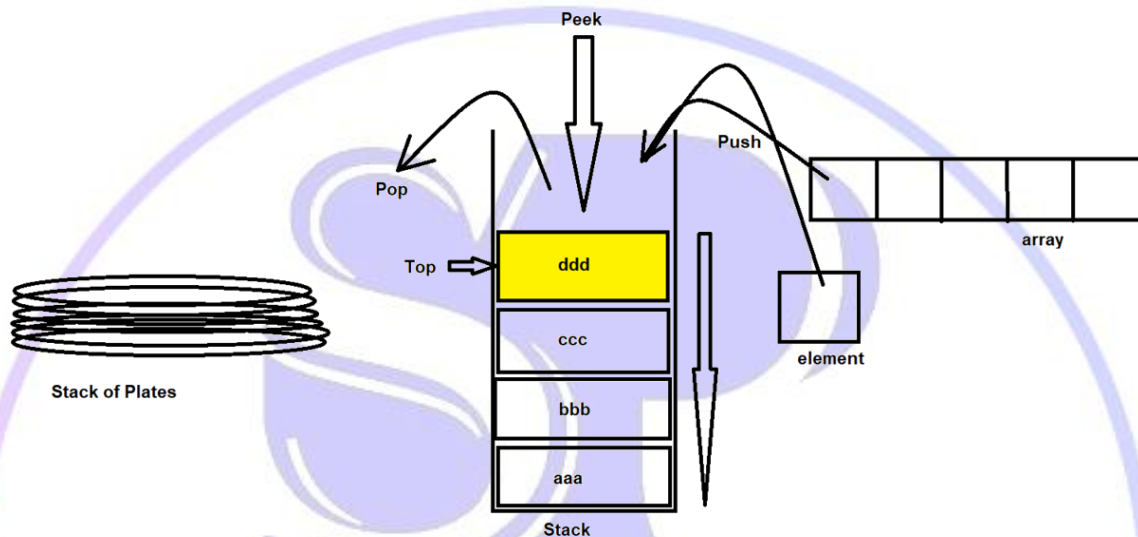## => Stack :-

➔ Stack is the child class of Vector class present in java.util package

➔ Syntax : public class Stack extends Vector { - }

➔ Stack was introduced in JDK 1.0 version

➔ Stack is also known as legacy class
(legacy class is the class which was re-engineered or restrctured in newer version)

-> Properties of Stack :-

1. Stack class was specially designed for Last In First Out (LIFO) but we can change this algorithm according to our requirement

2. Stack can be implemented using Array, ArrayList, LinkedList or Vector

3. Stack is also index based data structure

-> Working of Stack :-

In java stack is implemented by LIFO (Last In First Out) algorithm

-> Constructors :-

1. public Stack() { - }

-> Methods :-

1. Methods of Vector, List and Collections

2. public Object push(Object obj)

3. public synchronized Object pop()

4. public synchronized Object peek()

5. public synchronized int search(Object obj)

6. public boolean empty()

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