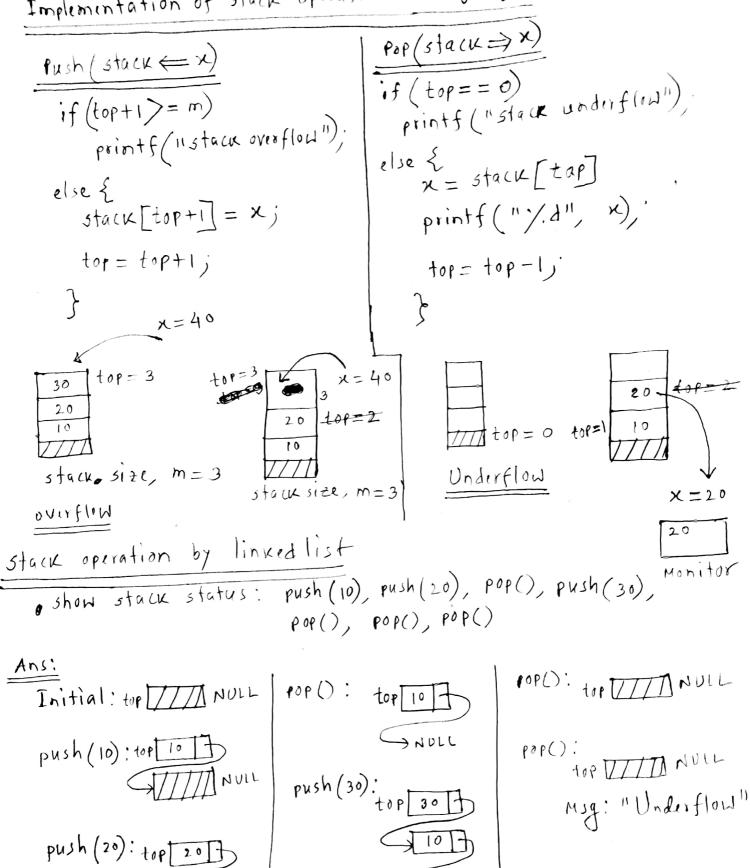


stack is a LIFO data structure. -> Last in first out Two operations of stack - Push ( to insut something into stack) - Pop ( To remove something from stack) stack using Array show stack status for each of the stack operations. Assume stack size, m=3; push(10), push(20), push(30), pop(), push(40), push(50) 40 top=3 POP(), POP(), POP(), POP() push (40):  $\frac{40}{20} \text{ top} = 3$ Initial: ////ttop=0 push (50): push (10): Msg: "stack overflou" top=1 20 top=1 pop(): 1 top=2 push (20): tor=3 pop(): top=1 push (30): 10 pop(): 7/1/1 top = 0 pop(): TOP = 2 pop():

## Implementation of stack operations using logic



SAULL

pop(): top 1017

SNULL