**1. push() - Insert an Element into the Stack**

**Algorithm:**

1. Take input x (the value to be pushed).
2. Allocate memory for a new node (newnode).
3. Assign x to newnode->data.
4. Set newnode->next = top (pointing to the current top node).
5. Update top = newnode (new node becomes the top of the stack).
6. Print a success message.

**2. pop() - Remove an Element from the Stack**

**Algorithm:**

1. Check if top == NULL (i.e., stack is empty).
   * If **true**, print "Stack empty" and return.
2. Otherwise:
   * Store top in a temporary pointer temp.
   * Print the value of top->data (element being popped).
   * Update top = top->next (move the top pointer to the next node).
   * Free memory allocated for temp.

**3. display() - Display Stack Elements**

**Algorithm:**

1. Check if top == NULL (i.e., stack is empty).
   * If **true**, print "Stack empty" and return.
2. Otherwise:
   * Initialize a pointer temp = top.
   * Traverse the stack using a loop:
     + Print temp->data.
     + Move to the next node (temp = temp->next).
   * Print a newline at the end.