Logical Explanation of the code

- **1. Checks for invalid positions** If the given position is **negative**, it prints an error message and exits.
- **2. Handles insertion at the head** If the position is **0**, it calls insert_at_start(val) to insert the node at the beginning.
- 3. Traverses the list It moves through the list until it reaches the (pos 1)th node (the node before the insertion point).
- **4. Inserts the new node** It creates a new node, links it to the next node, and updates the previous node's next pointer to maintain the list structure.

Output:

```
3->2->1->NULL
3->2->1->4->NULL
5->3->2->1->4->NULL
```

Code:

```
//Function to insert at any position.
    void insert(int val, int pos)
{
              if(pos<0){
              cerr << "Invalid pos\n";
              return;
              if(pos == 0)
              push_front(val);
              return;
              Node* temp = head;
              for(int i = 0; i < pos-1; i++){
              temp = temp->next;
              Node* newNode = new Node(val);
              newNode->next = temp->next;
              temp->next = newNode;
}
```