1. displayFirst()

- Checks if the list has at least one node (head is not NULL).
- Prints the value of the first node (head->data).

2. displayLast()

- If the list is empty (head == NULL), it exits immediately.
- Otherwise, it starts from the head and moves to the last node using a loop (temp = temp->next until temp->next is NULL).
- Prints the value of the last node.

3. displayNth(int n)

- Starts from the head and moves forward n times.
- Uses a counter (count) to track the position.
- If the counter reaches n, it prints the value of that node.
- If n is out of bounds (list is too short), it prints "Invalid position!".

4. displayCenter()

- Uses two pointers:
 - o slow moves one step at a time.
 - o fast moves two steps at a time.
- When fast reaches the end (NULL), slow is at the middle of the list.
- Prints the value of the center node.

Output:

```
First Node: 5
Last Node: 4
Nth Node (4): 4
Center Node: 2
```

Code:

```
// Display the first node
  void displayFirst()
  {
    if (head)
```

```
cout << "First Node: " << head->data << endl;</pre>
}
// Display the last node
void displayLast()
          {
  if (!head) return;
  Node* temp = head;
  while(temp->next)
                  {
    temp = temp->next;
  }
  cout << "Last Node: " << temp->data << endl;</pre>
}
// Display the Nth node (0-based index)
void displayNth(int n)
  Node* temp = head;
  int count = 0;
  while(temp)
                  {
    if(count == n)
                         {
      cout << "Nth Node (" << n << "): " << temp->data << endl;
       return;
    temp = temp->next;
    count++;
```

```
}
  cout << "Invalid position!" << endl;</pre>
}
// Display the center node
void displayCenter()
          {
  if(!head) return;
  Node* slow = head;
  Node* fast = head;
  while(fast && fast->next)
                  {
    slow = slow->next;
    fast = fast->next->next;
  }
  cout << "Center Node: " << slow->data << endl;</pre>
}
```