**LETSUPGRADE- DATA STRUCTURES AND ALGORITHMS- ASSIGNMENT DAY 3**

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**Question 1**

Write a function “insert\_any()” for inserting a node at any given position of the linked list. Assume position starts at 0.

Node insert\_any(Node \*head, int pos, int data)

{

Node \*temp = new Node(data);

if(pos == 1)

{

temp->next = head;

return temp;

}

Node \*curr = head;

for( int i=0; i<pos&&curr!=NULL; i++)

{

curr = curr->next;

}

temp->next = curr->next;

curr->next = temp;

return head;

}

**Question 2**

Write a function “delete\_beg()” for deleting a node from the beginning of the linked list.

Node \*delete\_beg(Node \*head)

{

if(head == NULL)

{

return NULL;

}

else

{

Node \*temp = head->next;

del head;

return temp;

}

}

**Question 3**

Write a function “delete\_end()” for deleting a node from the end of the linked list.

Node \*delete\_end(Node \*head)

{

if(head == NULL)

{

return NULL;

}

else{

Node \*curr = head;

while(curr->next->next != NULL)

{

curr = curr->next;

}

delete(curr->next);

curr->next = NULL;

return head;

}

}