**Assignment Day 3 | 26th December 2020**

**Question 1:**

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

**Answer 1:**

node\*insert\_any(node\*head, int x);

{

node\*temp = head;

node\*new=(node\*)malloc(size(node));

int i, d;

new🡪 d = d;

if(p==1)

{

new🡪 next = temp;

head = new;

return;

}

for(i=1; i<p-1; i++)

{

temp = temp🡪 next;

}

new🡪 next = temp🡪 next;

temp🡪 next = new;

}

**Question 2:**

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

**Answer 2:**

node\*delete\_beg(node\*head, int x)

{

node\*new = create(x);

If (head==NULL)

{

printf (“List is empty”);

}

Else

{

new=head;

head= head🡪next;

free(new);

}

}

**Question 3:**

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

**Answer 3:**

node\*delete\_end(node\*head, int x)

{

node\*new = create(x);

node\*temp = head;

if(head==NULL)

{

printf(“List is empty: “);

exit(0);

}

else if (head🡪 next ===Null)

{

new = head;

head = NULL;

free(new);

}

else

{

new=head;

while(new🡪next!=NULL)

{

temp=new;

new=new🡪next;

}

temp🡪next=NULL;

free(new);

}

}