**DAY 3 ASSIGNMENT**

**Done By:**

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

typedef struct node

{

int data;

struct node\*next;

}node;

node\*insert\_any(node\*prev\_node,int new data)

{

if (prev\_node==NULL)

{

cout<<”The given previous node cannot be NULL”;

return;

}

Node\*new\_node=new Node();

new\_node->data=new data;

new\_node->next=prev\_node->next;

prev\_node->next=new\_node;

}

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

typedef struct node

{

int data;

struct node\*next;

}node;

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

{

if(head==NULL)

return NULL;

Node\*temp=head;

head=head->next;

delete temp;

return head;

}

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

typedef struct node

{

int data;

struct node\*next;

}node;

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

{

if(head==NULL)

return NULL;

if (head->next==NULL)

{

delete head;

return NULL;

}

Node\*second\_last=head;

while(second\_last->next->next!=NULL;

second\_last=second\_last->next;

delete(second\_last->next);

second\_last->next=NULL;

return head;

}