***DSA assignment Day-3***

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

***Answer:-***

node \*insert\_any\_pos(node \*head,int x,int pos)

{

int c = 0;

node \*new = create(x);

if(head == NULL)

{

head = new;

return head;

}

node\* temp = head;

if(pos == 0)

{

new->next = head;

head = new;

return head;

}

while(temp->next!=NULL && !(c==pos-1))

{

c++;

temp = temp->next;

}

new->next = temp->next;

temp->next = new;

return head;

}

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

***Answer:-***

node \*delete\_beg(node\* head)

{

if(head ==NULL)

return ;

node \*temp = head;

head = temp->next;

free(temp);

return head;

}

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

***Answer:-***

node \*delete\_end(node \*head)

{

if(head == NULL)

return ;

node \*temp = head;

if(temp->next == NULL)

{

head =NULL;

free(temp);

return head;

}

while(temp->next->next)

temp=temp->next;

free(temp->next);

temp->next = NULL;

return head;

}