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;
}
```