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.

Ans int insert_any()

```
{
  int pos,i,num;
  if(start==NULL)
 {
  printf("List is empty!!");
  return 0;
}

  t=(struct node*)malloc(sizeof(struct node));
  printf("Enter data:");
  scanf("%d",&num);
  printf("Enter position to insert:");
  scanf("%d",&pos);
  t->data=num;

  q=start;
  for(i=1;i<pos-1;i++)
{
  if(q->next==NULL)
  {
     printf("There are less elements!!");
     return 0;
  }

  q=q->next;
}

  t->next=q->next;
  q->next=t;
}
```

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

Ans. void delete_beg()

```
{
  if(start==NULL)
{
  printf("The list is empty!!");
}
else
{
  q=start;
  start=start->next;
  printf("Deleted element is %d",q->data);
  free(q);
 }
}
```

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

Ans. void delete_end()

```
{
  if(start==NULL)
{
  printf("The list is empty!!");
}
  else
{
  q=start;
  while(q->next->next!=NULL)
  q=q->next;

    t=q->next;
    q->next=NULL;
    printf("Deleted element is %d",t->data);
    free(t);
  }
 }
```