Lab10:- Doubly linked list

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a) create a doubly linked list

```
void create()
  temp = (struct node *) malloc (2 * size of (struct node));
temp -> Prev = NULL;
temp -> next = NULL;
Print ("\n Enter the value to the node ::")
  scanf (" %d", &data)
    temp -> n = data;
count ++
y

  exit create
```

b) Insert node :-

```
void insert_beg ()
    if (n = NULL)
  {
        create ();
        h = temp;
        temp ! = h
    y
else
  {
        create ();
      temp -> next - n;
      h -> prev = temp
        h = temp
    y
```

c) Deletion of node

```
void delete_at pos() {
    int i = 1, pos;
→ take input of position (pos)
    temp = n
    if ((POS < 1) || (POS == count + 1))
    {
        Print Error
    }
    if (n == NULL)
    {
        Print Error
    }
    else {
        while (i < POS)
        {
            temp 2 = temp 2 → next;
            i++;
        }
        if (i != 2)
            temp = → prev → next : temp 2 → next;
        if (i == 1)
        {
            n = temp 2 → next;
            free (tmp2).
        }
        count --;
    }
}
```

d display

```
void display _beg (){
   temp 2 = n;
if ( temp 2 == NULL )
   {
       print Error
   }
while (temp2 -> next ! = NULL )
{
       printf (" 1.d ", temp 2 -> n );
   -temp 2 = temp2 -> next ;
   }
   printf (" 1.d ", temp 2 -> n);
}
```