Program 8 :- Double linked list (DLL)

→ Pseudocode :-

(a) Create a doubly linked list

```
void create(){
    temp = (struct node *) malloc (1* sizeof(struct node));
    temp -> prev = NULL;
    temp -> next = NULL;
    Printf ("\n Enter the value to the node::");
    scanf ("%d", &data).
    temp -> n = data;
    Count ++
}
    exit create.
```

(b) Insert the new node to the left of the node. (beginning).

```
Void Insert_beg (){

    if (h = NULL)
    {
        Create();
        h = temp';
        temp!=h
    }
    else
    {
        Create();
        temp -> next = h;
        h -> prev = temp
        h = temp
    }
    exit insert_beg.
```

(c) Delete the node o from the specific position or value.

→ Void @delete_atpos() {

```
int i=1, pos;
→ take input of position (pos)
   temp=h
if ((pos < 1) || (pos >= (count+1)))
{ print Error
}
 if (h == NULL)
   { print Error
   }
 else {
    while (i < pos)
    {
       temp2 = temp2->next;
         i++;
     }
      if (i != 1)
          temp2 -> prev -> next = temp2->next;
       if (i == 1)
           h = temp2->next;
           free (temp2);
         }
    count--;
}
```

(d) display the contents of list.

```
void display-beg () {
   temp2 = h;
   if (temp2 == NULL)
     {
       print Error
     }
   while (temp2->next != NULL)
   {   printf ("%d ", temp2->n);
       temp2 = temp2 -> next;
    }
    print ("%d", temp2->n);
}
```