LAB PROGRAM - 9 : doubly linked list

```
struct node
{
    int data;
    struct node *prev, *next;
};

void insertFront ( struct node **headptr , int value)
{
    struct node *newnode;
    newnode = (struct node *) malloc (sizeof ( struct node));
    newnode -> data = value;
    newnode -> next = NULL;
    newnode -> prev = NULL;
    if (*headptr == NULL)
        *headptr = newnode;
    else
    {
        newnode -> next = *headptr;
        (*headptr) -> prev = newnode;
        *headptr = newnode;
    }
}
void delFront( struct node ** head ptr, int value)
{
    struct node *temp , *del;
    temp = *head ptr;
    if (temp == NULL)
    {
        printf(" the list is empty !!\n");
        return;
    }
    else if ( temp -> next == NULL)
    {
        *headptr = NULL;
    }
    else
    {
        if ( ( *headptr ) -> data == value)
        {
            (*head ptr) = (*head ptr) -> next;
            (*head ptr) -> prev = NULL;
            printf (" The value has been deleted !\n");
            return;
        }
```

```
while ( temp -> next != NULL)
{
        if ((temp -> next) -> data == value)
        {
            del = temp -> next;
            temp -> next = del -> next;
            (temp -> next) -> prev = temp;
            printf (" the value has been deleted !\n" );
            return;
        }
        temp = temp -> next;
    }
    printf (" Element was not found !\n" );
}
```