Output:

g root@DESKTOP-A6ALB5L: /mnt/e/Programming assi	gnments/OOP/2 Stru	cts and points		– [□ ×
root@DESKTOP-A6ALB5L:/mnt/e/Programming			points# gcc 2a6	_Delete_	_elemen
t_doubly_cicular.c -o 2a6_Delete_elemen root@DESKTOP-A6ALB5L:/mnt/e/Programming			noints# /256 F	noloto ol	lomont
doubly_cicular	g assignments/c	OP/2 Structs and	points# ./zao_L	erere_er	rement_
Choose one of the options:	1. Display	2. Insert	3. Delete	4. Ex	xit
Your choice: 2	, ,				
Enter element to add to linked list: 5					
Choose one of the options:	 Display 	Insert	3. Delete	4. Ex	xit
Your choice: 2	_				
Enter element to add to linked list: 40					
Choose one of the options:	1. Display	2. Insert	Delete	4. E	xit
Your choice: 2 Enter element to add to linked list: 84	1				
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Choose one of the options: Your choice: 1	1. Dispiay	Z. Ilisert	3. Defete	4. [/	KIL
5 84 46					
End.					
Choose one of the options:	1. Display	2. Insert	3. Delete	4. Ex	xit
Your choice: 3	' '				
Successfully deleted					
Choose one of the options:	 Display 	Insert	Delete	4. Ex	xit
Your choice: 1					
84 46					
End.					
Choose one of the options:	 Display 	Insert	3. Delete	4. Ex	xit
Your choice: 3					
Successfully deleted	4 Disales	3 T	3 0-1-4-	4 5.	
Choose one of the options: Your choice: 1	1. Display	2. Insert	3. Delete	4. E)	ΧIT
Your Choice: 1 46					
End.					
Choose one of the options:	1 Display	2 Insert	3. Delete	4 F)	vit
Your choice: 3	1. Dispidy	Z. Insere	J. Belete	7. 27	
46Successfully deleted					
Choose one of the options:	 Display 	2. Insert	3. Delete	4. Ex	xit
Your choice: 1	, ,				
No elements in the list to display. :(
Choose one of the options:	 Display 	Insert	Delete	4. Ex	xit
Your choice: 4					
root@DESKTOP-A6ALB5L:/mnt/e/Programming	g assignments/C	OP/2 Structs and	points# _		

```
struct node* delete(struct node *handle){
    if(handle==NULL){
        printf("No elements to delete :(\n");
        return handle;
    }
    if(handle->next==handle){
        printf("%d",handle->next->data);
        handle = NULL;
        return handle;
    }
    handle->next->prev = handle->prev;
    handle->prev->next = handle->next;
    handle = handle->next;
    return handle;
int main(){
    int el, choice;
    while(1){
        printf("Choose one of the options:\t\t");
        printf("1. Display\t");
        printf("2. Insert\t");
        printf("3. Delete\t");
        printf("4. Exit\n");
        printf("Your choice: ");
        scanf("%d",&choice);
        switch (choice){
        case 1:
            display(handle);
            break;
        case 2:
            printf("Enter element to add to linked list: ");
            scanf("%d",&el);
            handle = insert(el,handle);
            break;
        case 3:
            handle = delete(handle);
            printf("Successfully deleted\n");
            break;
        default:
            return 0;
        return 0;
    }
}
```

Code:

}

```
// Write a function to delete an element into Doubly Circular Linked List
#include<stdio.h>
#include<stdlib.h>
int el, pos;
struct node
{
    int data;
    struct node *prev;
    struct node *next;
}*handle, *new, *current;
void display(struct node *handle){
    if(handle==NULL){
    printf("No elements in the list to display. :(\n");
    return;
    }
    current = handle;
    do{
    printf("%d\t",current->data);
    current = current->next;
    }while(current!=handle);
    printf("\nEnd.\n");
}
struct node* insert(int ele,struct node *handle){
    new = (struct node*)malloc(sizeof(struct node));
    new ->data=ele;
    if(handle==NULL){
        printf("null");
        new ->next=new;
        new->prev=new;
        handle = new;
        return handle;
    new->prev=handle;
    new->next=handle->next;
    handle->next->prev=new;
    handle->next=new;
    return handle;
```