```
#include<stdlib.h>
#include<stdio.h>
typedef struct odll {
        int data;
        struct odll * left;
        struct odll * right;
}odll;
odll * head = NULL;
int count = 0;
odll * createnode() {
        odll * newnode = (odll*)malloc(sizeof(odll));
        printf("Enter the element : ");
        scanf("%d", &newnode->data);
        newnode->left = NULL;
        newnode->right = NULL;
        count++;
        return newnode;
}
void push() {
        if(head == NULL)
                head = createnode();
        else {
                odll * temp = createnode();
                int j = count;
                odll * trav = head;
                if(temp->data <= head->data) {
                         temp->right = head;
                        head->left = temp;
                        head = temp;
                 }
                else {
                        while(temp->data > trav->data ) {
                                 if(trav->right == NULL ) {
                                         trav->right = temp;
                                          temp->left = trav;
                                          return;
                                 }
                                 else
                                         trav = trav->right;
                         temp->left = trav->left;
                         trav->left = temp;
                         trav = temp->left;
                         temp->right = trav->right;
                         trav->right = temp;
                }
        }
}
void display() {
        if (head == NULL)
                printf("Doubly Linked list is empty.\n");
```

```
else {
                odll * strt = head;
                printf("Elements of Ordered DLL are : ");
                while(strt != NULL) {
                        printf("%d ",strt->data);
                        strt = strt->right;
                printf("\n");
        }
}
void main() {
        int choice , flag = 1 ;
        printf("Ordered Doubly Linked List.\n");
        printf("Enter the operation to be performed.\n");
        while(flag) {
                printf("1.Push \t 2.Display \t 3.Exit : ");
                scanf("%d" , &choice);
                switch(choice) {
                        case 1 : push();
                                 break;
                        case 2 : display();
                                 break;
                        case 3 : flag = 0 ;
                                 break;
                        default : printf("Invalid input.\n");
                                   break;
                }
        }
}
```