```
int data)

street both "list;

younged extend loos mode;

younged extend loos mode;

with interest peoply

word interest, mode;

younged extend loos mode;

word interest, mode;

word interest, mode;

word interest, mode;

younged interest peoply

word interest, mode;

print("Concert listed list operation");

print("Concert list ope
```

```
curr->link=newl;
         curr=newl;
     printf("Do you want to add another element(Y/N):");
     scanf ("%s", &c);
     }while(c=='y' || c=='Y');
     curr->link=start;
- }
void insert beg() {
     newl=(node*)malloc(sizeof(node));
     printf("Enter element:");
     scanf("%d", &newl->data);
     if(start==NULL){
         start=newl;
         newl->link=start;
         return;
     temp=start;
     while(temp->link!=start){
         temp=temp->link;
     temp->link=newl;
     newl->link=start;
     start=newl;
L }
void insert end() {
     newl=(node*)malloc(sizeof(node));
     printf("Enter element:");
     scanf ("%d", &newl->data);
     if(start==NULL){
         start=newl;
         newl->link=start;
         return;
     }
     temp=start;
     while(temp->link!=start){
         temp=temp->link;
     temp->link=newl;
     newl->link=start;
void insert_at_specific_position() {
     newl=(node*)malloc(sizeof(node));
     printf("Enter element:");
     scanf("%d", &newl->data);
     printf("Enter position:");
     scanf ("%d", &pos);
     if (pos==1) {
         temp=start;
         while(temp->link!=start){
         temp=temp->link;
         temp->link=newl;
         newl->link=start:
```

```
temp=temp->link;
        i++;
    if(temp->link==start && i!=pos-1){
        printf("Entered position is greater than number of elements");
        return:
    if(temp->link==start){
        temp->link=newl;
        newl->link=start;
        return;
    newl->link=temp->link;
    temp->link=newl;
void delete_first() {
    if(start==NULL){
        printf("Circular linked list is empty");
        return;
    if(start->link==start){
        free (start);
        start=NULL;
        return;
    temp=start;
    while(temp->link!=start){
        temp=temp->link;
    temp->link=start->link;
    free (start);
    start=temp->link;
void delete last() {
    if(start==NULL){
        printf("Circular linked list is empty");
        return;
    if(start->link==start){
        free(start);
        start=NULL;
        return;
    temp=start;
    while(temp->link->link!=start){
        temp=temp->link;
    free(temp->link);
    temp->link=start;
void delete_specific_element() {
    if(start==NULL){
        printf("Circular linked list is empty");
```

```
if(start==NULL){
        printf("Circular linked list is empty");
        return;
    printf("Enter element to be deleted:");
    scanf("%d", &ele);
    if(start->data==ele && start->link==start){
        free (start);
        start=NULL;
        return;
    }
    if(start->data==ele){
        temp=start;
        while(temp->link!=start){
            temp=temp->link;
        temp->link=start->link;
        free (start);
        start=temp->link;
        return;
    pre=NULL;
    next=start;
    while(next->data!=ele && next->link!=start) {
        pre=next;
        next=next->link;
    if (next->data==ele && next->link!=start) {
        pre->link=next->link;
        free (next);
        return;
    }
    if(next->data==ele && next->link==start){
        pre->link=start;
        free (next);
        return;
    printf("Element not found");
void display() {
    if(start==NULL){
        printf("Circular linked list is empty");
        return;
    }
    temp=start;
    printf("Circular linked list contains:\n");
    while(temp->link!=start){
        printf("%d\t", temp->data);
       temp=temp->link;
    printf("%d", temp->data);
```

```
Circular linked list operation
1.Create
2.Insert at beginning
3.Insert at end
4. Insert at specific position
5.Delete first element
6.delete last element
7.Delete specific element
8.Display
9.Exit
Enter your choice:1
Enter element:12
Do you want to add another element(Y/N):y
Enter element:23
Do you want to add another element(Y/N):Y
Enter element:43
Do you want to add another element(Y/N):N
Circular linked list operation
1.Create
2.Insert at beginning
3.Insert at end
4.Insert at specific position
5.Delete first element
6.delete last element
7.Delete specific element
8.Display
9.Exit
Enter your choice:3
Enter element: 45
Circular linked list operation
1.Create
2.Insert at beginning
3.Insert at end
4.Insert at specific position
5.Delete first element
6.delete last element
7. Delete specific element
8.Display
9.Exit
Enter your choice:8
Circular linked list contains:
12 23 43 45Circular linked list
1.Create
2.Insert at beginning
3.Insert at end
4.Insert at specific position
5.Delete first element
6.delete last element
7.Delete specific element
8.Display
9.Exit
```

```
Enter your choice:8
Circular linked list contains:
12
        23
               43
                        45Circular linked list operat:
1.Create
2. Insert at beginning
3.Insert at end
4.Insert at specific position
5.Delete first element
6.delete last element
7.Delete specific element
8.Display
9.Exit
Enter your choice:6
Circular linked list operation
1.Create
2.Insert at beginning
3.Insert at end
4. Insert at specific position
Delete first element
6.delete last element
7.Delete specific element
8.Display
9.Exit
Enter your choice:5
Circular linked list operation
1.Create
2.Insert at beginning
3.Insert at end
4. Insert at specific position
5.Delete first element
6.delete last element
7.Delete specific element
8.Display
9.Exit
Enter your choice:8
Circular linked list contains:
23
        43Circular linked list operation
1.Create
2. Insert at beginning
3.Insert at end
4.Insert at specific position
5.Delete first element
6.delete last element
7.Delete specific element
8.Display
9.Exit
Enter your choice:9
Process returned 0 (0x0) execution time : 51.782 s
Press any key to continue.
```