1. Write a program in C to create and display a circular linked list.
Test Data :
Input the number of nodes : 3
Input data for node 1 : 2
Input data for node 2 : 5
Input data for node 3 : 8
Expected Output :

Data entered in the list are :
Data 1 = 2
Data 2 = 5
Data 3 = 8

2. Write a program in C to insert a node at the beginning of a circular linked list.
Test Data and Expected Output :

Input the number of nodes : 3
Input data for node 1 : 2
Input data for node 2 : 5
Input data for node 3 : 8

Data entered in the list are :
Data 1 = 2
Data 2 = 5
Data 3 = 8
Input data to be inserted at the beginning : 1

After insertion the new list are :
Data 1 = 1
Data 2 = 2
Data 3 = 5
Data 4 = 8

3. Write a program in C to insert a node at the end of a circular linked list.
Test Data and Expected Output :

Input the number of nodes : 3
Input data for node 1 : 2
Input data for node 2 : 5
Input data for node 3 : 8

Data entered in the list are :
Data 1 = 2
Data 2 = 5
Data 3 = 8
Input the data to be inserted : 9

After insertion the new list are :
Data 1 = 2
Data 2 = 5

Data 3 = 8
Data 4 = 9

4. Write a program in C to insert a node at any position in a circular linked list.
Test Data and Expected Output :

Input the number of nodes : 3
Input data for node 1 : 2
Input data for node 2 : 5
Input data for node 3 : 8

Data entered in the list are :
Data 1 = 2
Data 2 = 5
Data 3 = 8
Input the position to insert a new node : 3
Input data for the position 3 : 7

After insertion the new list are :
Data 1 = 2
Data 2 = 5
Data 3 = 7
Data 4 = 8

5. Write a program in C to delete a node from the beginning of a circular linked list.
Test Data :
Input the number of nodes : 3
Input data for node 1 : 2
Input data for node 2 : 5
Input data for node 3 : 8
Expected Output :

Data entered in the list are :
Data 1 = 2
Data 2 = 5
Data 3 = 8

The deleted node is -> 2
After deletion the new list are :
Data 1 = 5
Data 2 = 8

6. Write a program in C to delete a node from the middle of a circular linked list.
Test Data and Expected Output :

Input the number of nodes : 3
Input data for node 1 : 2
Input data for node 2 : 5
Input data for node 3 : 8

Data entered in the list are :
Data 1 = 2
Data 2 = 5
Data 3 = 8

Input the position to delete the node : 3

The deleted node is : 8
After deletion the new list are :
Data 1 = 2
Data 2 = 5

7. Write a program in C to delete the node at the end of a circular linked list.
Test Data and Expected Output :

Input the number of nodes : 3
Input data for node 1 : 2
Input data for node 2 : 5
Input data for node 3 : 8

Data entered in the list are :
Data 1 = 2
Data 2 = 5
Data 3 = 8

The deleted node is : 8
After deletion the new list are :
Data 1 = 2
Data 2 = 5

8. Write a program in C to search an element in a circular linked list.

Test Data and Expected Output :

Circular Linked List : Search an element in a circular linked list :

Input the number of nodes : 3
Input data for node 1 : 2
Input data for node 2 : 5
Input data for node 3 : 9

Data entered in the list are :
Data 1 = 2
Data 2 = 5
Data 3 = 9
Input the element you want to find : 5
Element found at node 2