Implementation of circular linked list:-

Created a structure node with two members i.e. info of type integer and a pointer of type structure node that will point to a node of the same type. Following are the various functions used in the program and a brief on what they do :-

1. insert\_node(): This function takes as argument a head pointer of type structure node that will point to the head of the circular list and the data which has to be inserted. Within the function it creates a temporary pointer which is used to insert the node in its correct position. Finally it returns the head pointer.
2. display(): This function also takes the head pointer as a function argument. It traverses the entire list before splitting and prints the data present in the circular list.
3. split(): This function takes the head pointer as a function argument. It keeps a count on the number of nodes and when it reaches the middle of the circular list then it changes the pointers to split the list into 2 circular lists. Finally it prints the 2 lists and returns successfully
4. main(): This function gives users choice to perform different operations, henceforth giving the output onto the screen.

Output :-





