```
/////////Function for making intersection///////
void intersection(Node *head1, Node *head2, int pos)
{
   Node *temp = head1;
    pos--;
   while (pos--)
        temp = temp->next;
    }
   Node *temp2 = head2;
   while (temp2->next != NULL)
        temp2 = temp2->next;
   temp2->next = temp;
int length(Node *&head)
    int 1 = 0;
   Node *temp = head;
   while (temp->next != NULL)
        1++;
       temp = temp->next;
    return 1;
int detectIntersection(Node *&head1, Node *&head2)
{
    int l1 = length(head1);
    int 12 = length(head2);
    int d = 0;
   Node *ptr1;
   Node *ptr2;
    if (11 > 12)
        d = 11 - 12;
       ptr1 = head1;
       ptr2 = head2;
    }
   else
    {
        d = 12 - 11;
        ptr1 = head2;
       ptr2 = head1;
   while (d)
```

```
{
       ptr1 = ptr1->next;
       if (ptr1 == NULL)
        {
            return -1;
        }
        d--;
   while (ptr1 != NULL && ptr2 != NULL)
        if (ptr1 == ptr2)
            return ptr1->data;
        ptr1 = ptr1->next;
        ptr2 = ptr2->next;
    }
    return -1;
}
//////// merge two sorted linked list/////////
Node* merge(Node* &head1,Node* &head2){
   Node* ptr1=head1;
        Node* ptr2=head2;
        Node* dummy= new Node(-1);
        Node*ptr3=dummy;
        while(ptr1!=NULL && ptr2!=NULL){
            if(ptr1->data<ptr2->data){
                ptr3->next=ptr1;
                ptr1=ptr1->next;
            }
            else{
                ptr3->next=ptr2;
                ptr2=ptr2->next;
            ptr3=ptr3->next;
        }
        while(ptr1!=NULL){
                ptr3->next=ptr1;
                ptr1=ptr1->next;
                ptr3=ptr3->next;
            }
            while(ptr2!=NULL){
                ptr3->next=ptr2;
                ptr2=ptr2->next;
                ptr3=ptr3->next;
            }
```

```
return dummy->next;

Merge two sorted linked list using recursion
Node* mergeRecursive(Node* head1,Node* head2){
   Node*result;
   if(head1==NULL){
      return head2;
   }
   if(head2==NULL){
      return head1;
   }
}
```

if(head1->data<head2->data){

result=head2;

result->next=mergeRecursive(head1->next,head2);

result->next=mergeRecursive(head1,head2->next);

result=head1;

else{

return result;

}

}

}

}