**DAY 26**

**CODE:**

#include<stdio.h>

#include<stdlib.h>

struct Node{

int data;

struct Node \*next;

}\*head;

void display()

{

struct Node \*temp=head;

if(head==NULL)

{

printf("\n\nLinked List is empty!");

}

else

{

while(temp!=NULL)

{

printf("%d -> ",temp->data);

temp=temp->next;

}

printf("NULL");

}

}

void insert(int x)

{

struct Node \*newnode= (struct Node\*) malloc(sizeof(struct Node));

newnode->data=x;

if(head==NULL)

{

newnode->next=NULL;

head=newnode;

}

else

{

newnode->next=head;

head=newnode;

}

display();

}

struct Node\* deleteDuplicates(){

struct Node \*temp=head, \*i=NULL;

while(temp!=NULL)

{

i=temp->next;

while(i!=NULL)

{

if(temp->data==i->data)

{

temp->next=i->next;

}

i=i->next;

}

temp=temp->next;

}

display();

}

void main()

{

int x;

while(1)

{

printf("\n\nEnter n values: ");

scanf("%d",&x);

printf("\n");

if(x==-1)

{

display();

break;

}

else

insert(x);

}

printf("\n\nThe original list is: ");

display();

printf("\n\nThe list after deleting duplicates is: ");

deleteDuplicates();

}

**OUTPUT:**



