## PRACTICAL - 6

## PROGRAM -1

AIM- Write A C Program For Simple Linked-List

CODE-

```
#include <stdio.h>
#include <stdlib.h>
struct node
  int data;
  struct node *next;
};
struct node *head = NULL;
// Function to insert a new node at the beginning of the linked list
void insert(int data)
{
  struct node *newnode = (struct node *)malloc(sizeof(struct node));
  newnode->data = data;
  newnode->next = head;
  head = newnode;
}
// Function to display the elements of the linked list
void display()
  struct node *temp = head;
  while (temp != NULL)
    printf("%d ", temp->data);
    temp = temp->next; // Move to the next node
}
int main()
 printf("\n HARSH D \n");
```



```
int n, data;
printf("Enter the number of nodes: ");
scanf("%d", &n);

for (int i = 0; i < n; i++)
{
    printf("Enter the data for node %d: ", i + 1);
    scanf("%d", &data);
    insert(data); // Insert data into the linked list
}

printf("Linked List elements: ");
display(); // Display the linked list
    return 0;
}</pre>
```

## **OUTPUT**

```
HARSH D
Enter the number of nodes: 3
Enter the data for node 1: 1
Enter the data for node 2: 2
Enter the data for node 3: 3
Linked List elements: 3 2 1
```