PRACTICAL – 6

PROGRAM -1

AIM- Write A C Program For Simple Linked-List

CODE-

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| #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;  } |

OUTPUT

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