```
Write C Program to create Singly Liked List with n elements and reverse the elements
#include <stdio.h>
#include <stdlib.h>
struct node
  int num;
  struct node *next;
};
void create(struct node **);
void reverse(struct node **, int);
void release(struct node **);
void display(struct node *);
int main()
  struct node p = NULL;
  int n;
printf("Enter data into the list\n");
  create(&p);
printf("Displaying the nodes in the list:\n");
  display(p);
printf("Enter the number N to reverse first N node: ");
scanf("%d", &n);
printf("Reversing the list...\n");
  if (n > 1)
  {
     reverse(&p, n - 2);
printf("Displaying the reversed list:\n");
  display(p);
  release(&p);
  return 0;
}
void reverse(struct node **head, int n)
  struct node *p, *q, *r, *rear;
  p = q = r = *head;
  if (n == 0)
     q = q->next;
     p->next = q->next;
     q->next = p;
     *head = q;
  else
     p = p->next->next;
     q = q->next;
     r->next = NULL;
     rear = r;
     q->next = r;
     while (n > 0 \&\& p != NULL)
```

```
r = q;
       q = p;
       p = p->next;
       q->next = r;
       n--;
     *head = q;
     rear->next = p;
void create(struct node **head)
  int c, ch;
  struct node *temp, *rear;
  do
printf("Enter number: ");
scanf("%d", &c);
     temp = (struct node *)malloc(sizeof(struct node));
     temp->num = c;
     temp->next = NULL;
     if (*head == NULL)
       *head = temp;
     else
       rear->next = temp;
     rear = temp;
printf("Do you wish to continue [1/0]: ");
scanf("%d", &ch);
  \} while (ch != 0);
printf("\n");
void display(struct node *p)
  while (p != NULL)
printf("%d\t", p->num);
     p = p->next;
printf("\n");
void release(struct node **head)
  struct node *temp = *head;
  *head = (*head)->next;
  while ((*head) != NULL)
     free(temp);
     temp = *head;
     (*head) = (*head)->next;
```

ļ

OUTPUT