

/*Write separate user defined functions to perform the following operations on a single linked list: (i) Insert after ith node*/

```
#include<stdio.h>
#include <stdlib.h>
#include <malloc.h>
```

```
struct node
{
    int data;
    struct node *next;
} * start, *current, *newnode;
void insertafteri();
```

```
void main()
{
    int x;
    newnode = (struct node *)malloc(sizeof(struct node));
    printf("Enter the value of x");
    scanf("%d", &x);
    newnode->data = x;
    newnode->next = start;
    start = newnode;
}
```

```
void insertafteri()
{
    int x,i,pos;
    struct node *p;
    p=start;
    i=0;
    printf("Enter the node position");
    scanf("%d",&pos);
    while(p->next!=NULL && i<pos)
    {
        p=p->next;
        i++;
    }
    newnode = (struct node *)malloc(sizeof(struct node));
    printf("Enter data for new node");
    scanf("%d",&x);
    newnode->data=x;
    newnode->next=p->next;
    p->next=newnode;
}
```