```
//linked list insertion
#include <stdio.h>
#include <stdlib.h>
struct node
{
   int data;
   struct node *next;
}*first=NULL;
void insert(struct node  **p,int pos,int no)
{
   struct node *t;
   t=(struct node*) malloc (sizeof(struct node));
   t->data=no;
   if(pos==0)
   {
      t->next=*p;
      *p=t;
   }
   else{
      struct node *temp=*p;
      for(int i=1;i<pos && (p!=NULL);i++)
         temp=temp->next;
      t->next=temp->next;
      temp->next=t;

   }

}
void display(struct node *p)
{
   while(p!=NULL)
```

```
    {
        printf("%d\t",p->data);
        p=p->next;
    }



}
void main()
{
    int ch,p,n;
    while(1)
    {
        printf("enter 1 to insert 2 to display 3 to exit");
        printf("enter the choice:");
        scanf("%d",&ch);
        switch(ch)
        {
            case 1:printf("enter the no and pos where to insert:");
                    scanf("%d%d",&p,&n);
                    insert(&first,p,n);
                    break;
            case 2:display(first);
                    break;
            case 3:exit(0);
            default:printf("invalid choice");
                    break;

        }
    }
```

}

Output

```
enter 1 to insert 2 to display 3 to exitenter the choice:1
enter the no and pos where to insert:0 11
enter 1 to insert 2 to display 3 to exitenter the choice:1
enter the no and pos where to insert:1 12
enter 1 to insert 2 to display 3 to exitenter the choice:2
11      12      enter 1 to insert 2 to display 3 to exitenter the choice:1
enter the no and pos where to insert:0 13
enter 1 to insert 2 to display 3 to exitenter the choice:2
13      11      12      enter 1 to insert 2 to display 3 to exitenter the choice:1
enter the no and pos where to insert:2 14
enter 1 to insert 2 to display 3 to exitenter the choice:2
13      11      14      12      enter 1 to insert 2 to display 3 to exitenter the choice:3
```