/*node count,min element in sll*/

```
#include<stdio.h>
#include<stdlib.h>
struct node{
	int data;
	struct node*link;
};
struct node*header;
struct node*create_sll(struct node*);
struct node*display(struct node*);
void node_count();
void min_element();
int main()
{
	int ch;
	while(ch!=5)
	{
		printf("main menu\n");
		printf("1.create list\n2.display\n3.count no of nodes in the sll\n4.minimum element of the sll\n5.exit\n");
		printf("enter your choice\n");
		scanf("%d",&ch);
		switch(ch)
		{
			case 1:header=create_sll(header);
			break;
			case 2:header=display(header);
			break;
			case 3:node_count();
			break;
			case 4:min_element();
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                        break;
                        case 5:exit(0);
                        default:
                                printf("invalid choice\n");
                }
        }
}
struct node*create_sll(struct node*header)
{
        int item;
        struct node*new_node,*ptr;
        printf("enter -1 to end\n");
        printf("enter your data:\n");
        scanf("%d",&item);
        while(item!=-1)
        {
                new_node=(struct node*)malloc(sizeof(struct node*));
                new_node->data=item;
                if(header==NULL)
                {
                        new_node->link=NULL;
                        header=new_node;
                }
                else
                {
                        ptr=header;
                        while(ptr->link!=NULL)
                        {
                                ptr=ptr->link;
                        }
                        ptr->link=new_node;
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                        new_node->link=NULL;
                }
                printf("enter your data:\n");
        scanf("%d",&item);
        }
        printf("list created\n");
        return header;
}
struct node*display(struct node*header)
{
        printf("the list is below\n");
        struct node*ptr;
        ptr=header;
        while(ptr!=NULL)
        {
                printf("%d\n",ptr->data);
                ptr=ptr->link;
        }
        return header;
}
void node_count()
{
        int count=0;
        struct node*ptr;
        ptr=header;
        while(ptr!=NULL)
        {
                ++count;
                ptr=ptr->link;
        }
        printf("the no of nodes i that sll:%d\n",count);
```

```
}
void min_element()
{
	int min;
	struct node*ptr;
	ptr=header;
	min=ptr->data;
	ptr=ptr->link;
	while(ptr!=NULL)
	{
		if(ptr->data<min)
		{
			min=ptr->data;
		}
		ptr=ptr->link;
	}
	printf("the minimum element of that sll is:%d\n",min);
}
```