/*node count,min element of a link list*/

```
#include<stdio.h>
#include<stdlib.h>
struct node
        int data;
        struct node *next;
};
struct node*header;
void beginsert();
void display();
void node_count();
void min_element();
int main()
{
        int ch=0;
        while(ch!=5)
        printf("**MAIN MENU**\n");
        printf("1.insert nodes\n2.display\n3.count the no. of nodes in a single link list\n4.minimum
element from the link list\n5.exit\n");
        printf("enter your choice\n");
        scanf("%d",&ch);
        switch(ch)
        {
                case 1:beginsert();
                break;
                case 2:display();
                break;
                case 3:node_count();
                break;
```

```
case 4:min_element();
                break;
                case 5:exit(0);
                default:
                        printf("invalid choice\n");
       }
 }
}
void beginsert()
{
        struct node*ptr;
        int item;
        ptr=(struct node*)malloc(sizeof(struct node*));
        if(ptr==NULL)
        {
                printf("OVERFLOW\n");
        }
        else
        {
                printf("enter value\n");
                scanf("%d",&item);
                ptr->data=item;
                ptr->next=header;
                header=ptr;
                printf("node inserted\n");
       }
}
void display() //traversal
{
        struct node*ptr;
        ptr=header;
```

```
if(ptr==NULL)
       {
               printf("nothing to print\n");
       }
       else
       {
               printf("printing values...\n");
               while(ptr!=NULL)
               {
                       printf("%d\n",ptr->data);
                        ptr=ptr->next;
               }
       }
}
void node_count()
{
       int count=1;
       struct node*ptr;
       ptr=header->next;
       while(ptr!=NULL)
       {
               ++count;
               ptr=ptr->next;
       }
       printf("the no. of nodes is:%d\n",count);
}
void min_element()
{
       int min;
       struct node*ptr;
```

```
ptr=header->next;
min=ptr->data;
ptr=ptr->next;
while(ptr!=NULL)
{
         if(ptr->data<min)
         {
                min=ptr->data;
         }
         ptr=ptr->next;
}
printf("the min element of that list is:%d\n",min);
}
```

