

### **Ex3: split one list into two linked list**

```
#include<iostream.h>
```

```
struct node
```

```
{ int item;
```

```
  node *next; };
```

```
void split(node *f1,node *&f2)
```

```
    { node *p,*q;
```

```
      int c;   p=f1;
```

```
      cout<<"enter the number to split\n"; cin>>c;
```

```
      while(p->item!=c)
```

```
      { p=p->next;
```

```
        f2=p->next;
```

```
        p->next=0; }
```

```
void print(node *f)
```

```
    { node *p;
```

```
      p=f;
```

```
      while(p!=0)
```

```
      { cout<<p->item; p=p->next;}
```

```
    }
```

```
void main()
```

```
    { node *p,*q,*f1,*f2;
```

```
f1=new node;

cin>>f1->item; f1->next=0;

p=f1;

for(int i=1; i<5;i++)
{
    q=new node;

    cin>>q->item;  q->next=0;

    p->next =q;    p=q; }

p=f1;

split(f1,f2);

print(f2);

}
```