

```
>> % To determine the element node Incidence Matrix and Bus Incidence Matrix for the given power system %
>> % Name : - Om Jugalkishor Karrahe%
>> %Subject name : - CAPS (Practical)%
>>
>> n=4;
>> e=5;
>> sn=[1 2 3 4 4 ];
>> en =[2 3 4 1 2 ];
>> for j=1:e
A(j,sn(j))=1;
A(j,en(j))=-1;
end
>> Acap=A;
>> A

A =

     1     -1     0     0
     0      1     -1     0
     0      0      1     -1
    -1      0      0      1
     0     -1      0      1

>> A1=A(1:5,2:4);
>> A1

A1 =

    -1      0      0
     1     -1      0
     0      1     -1
     0      0      1
    -1      0      1

>>
```