```
n=input('enter no of equations n=');
for i=1:1:n
    if i==1
        a(i) = 0;
        b(i)=input('enter B matrix element=');
        c(i) = input('enter C matrix element='`
    else
        if i==n
            a(i)=input('enter A matrix element=');
            b(i)=input('enter B matrix element=');
            c(i) = 0;
        else
            a(i)=input('enter A matrix element=');
            b(i)=input('enter B matrix element=');
            c(i)=input('enter C matrix element=');
        end
    d(i)=input('enter D matrix element=');
end
for i=2:1:n
    m(i) = a(i)/b(i-1);
    b(i) = b(i) - m(i) * c(i-1);
    d(i) = d(i) - m(i) * d(i-1);
end
x(n) = d(n)/b(n)
for i=n-1:-1:1
    x(i) = (d(i) - c(i) *x(i+1))/b(i);
end
for i=1:1:n
    fprintf('\nX(%d)=%f',i,x(i));
end
% OUTPUT
% TDMA
% enter no of equations n=4
% enter B matrix element=2.04
% enter C matrix element=-1
% enter D matrix element=40.8
% enter A matrix element=-1
% enter B matrix element=2.04
% enter C matrix element=-1
% enter D matrix element=0.8
% enter A matrix element=-1
% enter B matrix element=2.04
% enter C matrix element=-1
% enter D matrix element=0.8
% enter A matrix element=-1
```

```
% enter B matrix element=2.04
% enter D matrix element=200.8
90
% x =
응
% 31.6887 23.8450 16.1550 159.4795
용
응
% X(1) = 65.969834
% X(2) = 93.778462
% X(3)=124.538228
% X(4) = 159.479524 >>
```