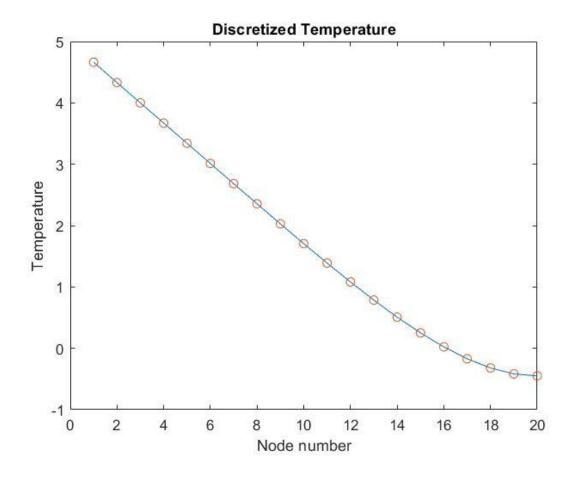
## Problem 9 of problem set 7

## h=0.1

Boundary conditions -> Ta=5 , x=L=2

## 2-nd order Backward Difference Output –

- T(1) = 4.662986
- T(2) = 4.330491
- T(3) = 4.000305
- T(4) = 3.670994
- T(5) = 3.341757
- T(6) = 3.012344
- T(7) = 2.683010
- T(8) = 2.354494
- T(9) = 2.028027
- T(10) = 1.705346
- T(11) = 1.388737
- T(12) = 1.081078
- T(13) = 0.785910
- T(14) = 0.507511
- T(15) = 0.250995
- T(16) = 0.022421
- T(17) = -0.171076
- T(18) = -0.321134
- T(19) = -0.417988
- T(20) = -0.450272



## 2-nd order Central Difference with Ghost Node Output –

T(1) = 4.662873

T(2) = 4.330228

T(3) = 3.999846

T(4) = 3.670282

T(5) = 3.340722

T(6) = 3.010900

T(7) = 2.681054

T(8) = 2.351902

T(9) = 2.024647

T(10) = 1.700999

T(11) = 1.383207

T(12) = 1.074110

T(13) = 0.777200

T(14) = 0.496700

T(15) = 0.237659

T(16) = 0.006061

T(17) = -0.191048

T(18) = -0.345405

T(19) = -0.447365

T(20) = -0.485699

