TASK1

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**Question**:A short summary about the conductive heat transfer and solving the same exercise with L= 0.4 m, A= 20 m2, DeltaT= 25, and k=0.78 W/m K using both simple method and using the resistance concept.

**Conducticve heat transfer** is a kind of heat transfer in which heat is transfered through different modes of materials like gas and solids.

## **Simple Method:**

 $Q=KA\Delta T/L$ 

Q=(0.78)(20)(25)/.4=975W

## **Resistance Concept:**

 $R_{\text{wall}} = L/KA$ 

 $R_{\text{wall}}=.4/(0.75)(20)=.0256$ 

 $Q = \Delta T / R_{wall}$ 

Q=25/.0256=976W