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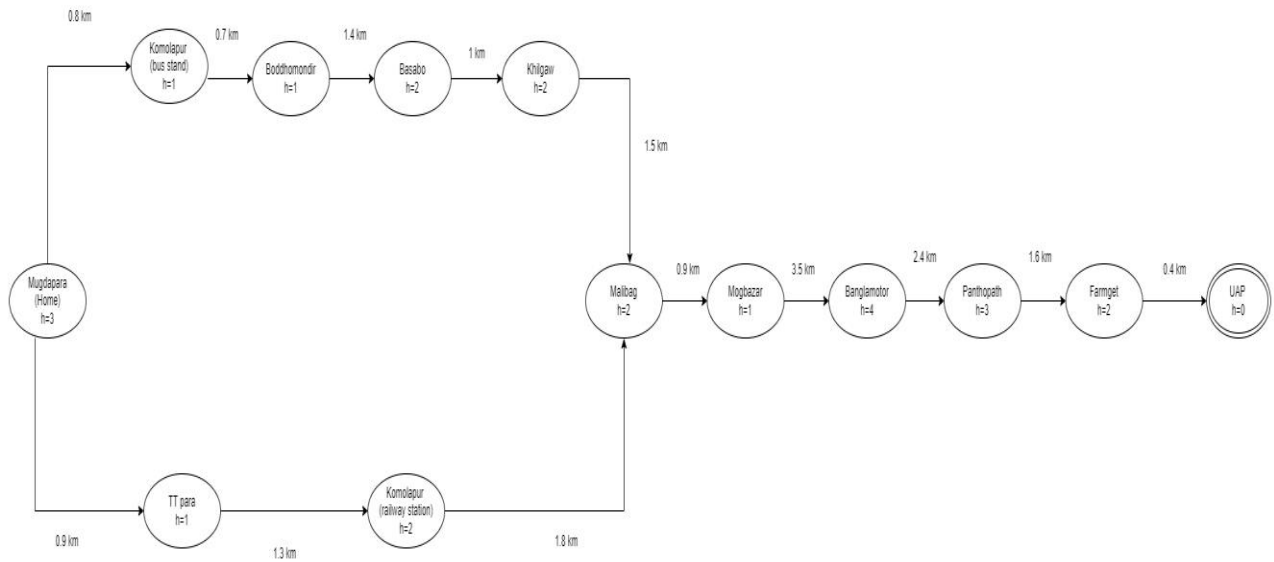
Registration no: 19101008

Here,

Start node: Mugdapara

Goal node: UAP

Cost in distance: Kilometer (km)



**Heuristic Values:**

$$h(\text{Mugdapara}) = (8\%4) + 3 = 3$$

$$h(\text{Komolapur Bus Stand}) = (8\%4) + 1 = 1$$

$$h(\text{Boddhomondir}) = (8\%4) + 1 = 1$$

$$h(\text{Basabo}) = (8\%4) + 2 = 2$$

$$h(\text{Khilgaw}) = (8\%4) + 2 = 2$$

$$h(\text{Malibag}) = (8\%4) + 2 = 2$$

$$h(\text{Mogbazar}) = (8\%4) + 1 = 1$$

$$h(\text{Banglamotor}) = (8\%4) + 4 = 4$$

$$h(\text{Panthopath}) = (8\%4) + 3 = 3$$

$$h(\text{Farmget}) = (8\%4) + 2 = 2$$

$$h(\text{TT para}) = (8\%4) + 1 = 1$$

$$h(\text{Komolapur Railway station}) = (8\%4) + 2 = 2$$

$$h(\text{UAP}) = 0$$

$$\text{Path cost: } (0.9+1.3+1.8+0.9+3.5+2.4+1.6+0.4) \text{ km} = 12.80 \text{ km}$$

Shortest path: Mugdapara (Home) --> TT para --> Komolapur Railway station --> Malibag --> Mogbazar --> Banglamotor --> Panthopath --> Farmget --> UAP