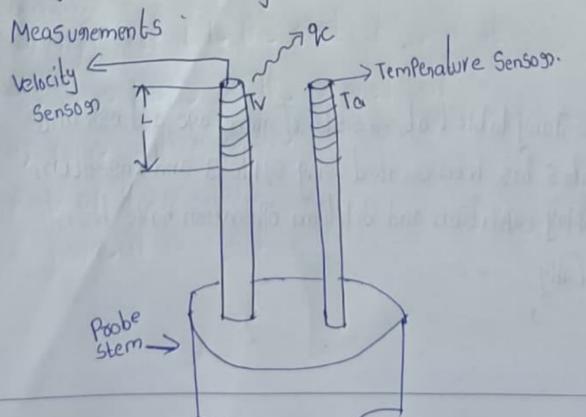
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## Hot wine anemometen

- > A device that is used to measure the velocity of a fluid such as also on gas is called hot wisne anemometers.
- Industrial themmal anomometrie is used to monitor velocity in gas flows has two sensors.
  - 1) velocity Senson
    - 2) Tempenature Senson
- The Automatical connection of changes in gas temperature is done toon in hot wine
- -> Both sensons one neference grade Platinum nesistance temperature detections (RTD's)
- > The electric mesistance of RTD's increase as temperature increases.
- > they are most commonly used sensors from accumate temperature



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## Working Paninciple

- > the electronic cioncuit Passes current through velocity sensor
- > Now heat it to the constant differential temperature of the gas > Ta is takes as the measured heat temperature (TV-Ta).
- > 9c is taken as the cooler gas that contains as it flows part the
- -) hence it is called constant temperature thermal anemometers.
- > Hot Wine classified into 2 categories
  - 1 Constant cumment anemometer
  - 2) constant temperature 11

## Constant connent)-

- 1) the electoric cioncuit Passes constant cumment through velocity
- 27 NOW heat it to the constant comment. Senson
- 3) Ta is takes as the measured heat
- 4) 9c is taken as the cooler gas that contains as it flows
- Parts of the sensoon.
- 5, hence it is called constant tunnent anemometer.

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## 6a. PROGRAM:

 $my_list = [1, 2, 3, 4, 5]$ 

sum = 0

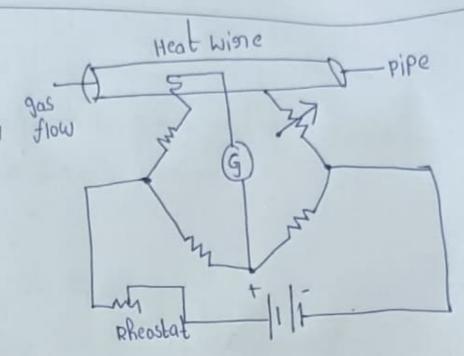
for x in my\_list:

sum += x

print(sum)

### OUTPUT:

constant temp!



- -) the ex-constant temp passes through Velocity Temp sensoon.
- -> Now heat it to the constant temperature
- -> Ta is the measured heat
- -> 9c is taken as the coolen gas that contains as it flows from

the sensor

I hence it is called constant temp an emometer.

- 7 less cost
- -> spatial seperation
- -> signal Analysis.
- -> Small size
- -> Accumacy is good

## Disadu

- 1) high burbulance intensity
  - -) Signal noise
  - -) Breaking Probe
  - -) 11quid flows.

# Application

- O chemical Industry
- (2) power Indutry
- (3) Dong and food Industry
  - @ metallic Indultry
  - (3) Envisonmental

Protection