

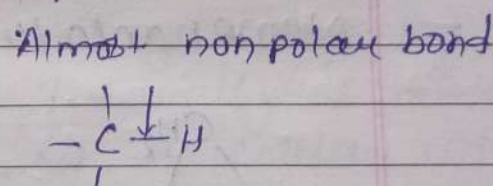
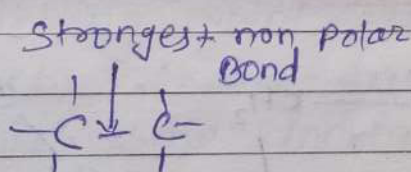
insoluble in polar solvent such as water.

### Chemical properties of Alkane —

→ As already absorbed alkane are relatively stable to common reagent such as — Acid, Alkali, oxidizing agent, at room temperature

This is due to the fact that the electronegativity of carbon (2.60) and hydrogen (2.1) do not differ.

Thus, the bond electron in carbon-hydrogen (CH) are practically equal shared between them and the bond is almost non-polar.



### \* Methane (CH<sub>4</sub>)

Methane is the first member of alkane series. It is also called marsh gas because it is found bubbling from marshy place where it is produced as a result of bacteria decomposition of dead vegetable.

— It also occurs under pressure in many coal. The coal mines are called it fire damp