Broblem Solving

Computational Trunking

- (1) what is computational thinking?
- Computational thinking approaches
- Information and Data
- Datatypea and Encoding

Morden Computer

- → Electronic Device
- → Digital
- → stored program concept

Generation of Computer

1 st yen: (1940-56) Vacuum tules

2nd Jun: (1956-63) lloing Transistors

3rd Jun: (1964-71) thing Integrated

monobracionary 4th Jen: (1971-present)

5th yen: (present-juture)

approaches

- abstraction
 - Muthragla
 - neutematus

→ problem decomposition

mattingasor metted

evaluation

<u>Devices</u> (computation devices)

4 Pascaline 1) computer

(3) Justifried laibries (2) Abacua

3 Napier Bones (Antikythera

History of Computers

- 1 The Analytical Engine: Charles Babbage
- US census calculating: Herman Hollerith device (1890)
- (3) Mechanical Tabulating Machine: IBM (1924)
- 4 Analog Device (1930): Vannewar Rush Dyferential Analyzer
 - Electronic Numerical Integrator And Computer (ENIAC) 1946,USA

> first Mordon Computer

