- ❖ *History of computer:-*
  - ✓ *Computer invented because man needed a fast and accurate calculating device.*
  - ✓ *Modern day computer with accurate and speed which is not an invention of individual person.*
  - ✓ *It is a result of countless invention, devotion and contribution of many persons throughout the last several decades.*
  - ✓ *When human races started they felt a need of calculating devices.*
  - ✓ *Some contribution regarding of computing:*
  - • *Abacus*
  - • *Napier's logs and bones*
  - • *Pascal adding machine*
  - • *Charles Babbage*
  - • *Herman Hollerith's machine*
  - • *MARK-I*

- ➢ *Abacus:-*
  - ▪ *It is the earliest & simplest calculating machine.*
  - ▪ *It was invented by Chinese mathematician during 3000BC Chan Dawei.*
  - ▪ *It is day board consist of bead in a wire. It is a mechanical device used for addition and subtraction.*

- ➢ *Napier's logs and bones:-*
  - ▪ *It converts all the multiplication and division into addition and subtraction.*
  - ▪ *Log A.B = A + B*
  - ▪ *Log A/B = A – B*

- *Napier's developed bones card which solve multiplication problem.*

➢ *Pascal adding machine:-*
  - *In 1642 Pascal discovered adding machine.*
  - *In 1671 God Golf rid developed the Ist calculating device which prefer like addition, subtraction, multiplication and division.*

➢ *Josef Jaquarred's loom:-*
  - *He was a textile manufacturer.*
  - *He was invented automatic loom in 1804.*
  - *He used punch card to produce complex cloth with his automatic loom.*
  - *The function of loom presence & absence of hook on the card.*
  - *Jaquarred gave the way for the modern storage mechanism and binary coding by punch card.*

➢ *Charles Babbage:-*
  - *He is known as the father of computer. He brings out the concept of storage and speed.*
  - *He was a professor of mathematician at Cambridge University.*
  - *In 1842 he invented a automatic differential machine perform algebraic expression up to 20 digits.*
  - *He spent 17000$ on his project.*
  - *His idea of storage came from punch card of Jaquarred's loom.*

➢ *Herman Hollerith's machine:-*

- *The next major contribution came from Dr. Herman Hollerith of USA.*
- *He developed a machine which runs electrically for the first time for calculation of data.*
- *It is also based on punch card this machine is capable for data process and giving out the letter.*
- *He was inventor of mechanical calculator and tabulator.*
- *He established a company in 1896 TMC which is today known as IBM.*

➢ *MARK-I*

Ward Aicon developed first fully electro mechanically computer named as MARK-I