## Evolution of O.S.

1945 - 1955

- 1) <u>First Generation</u> ->. No operating 8ystem
  - (e) Hardware like vaccum tubes 2 plugboard were used.
- ( ) No protection
- (.) Consume more electricity and generates lots of head.
- () These systems K/a serial processing
- ( ) We have to work with Machine danguage.
- ( EX > ENIAC
- 1) Second Generation. 1955 1965

  () Batch 8y8tem was introduced.
- ( ) Transitors were used.
- ( ) Minimal protection.
- (1) I/O operation processor had to remain idle.
- ( ) Laid the loundation for multitasking.

- (3) Third Generation (3) 1965 1980

  (4) Multiple programming /multitasking

  (5) Online Storage for >> System programs

  >> Usen program and data

  >> program libraries.
- (1) No starvation.
- (4) Fourth Generation > (0) 1980 Now.
  - ( ·) Computer networking
  - (1) Provider Graphical user Interface (UNUI).
  - (.) No Starration.
  - ( ) Max CPU Utilization.
  - ( ) provides High priority execution also.
- (e) set of programs (software).