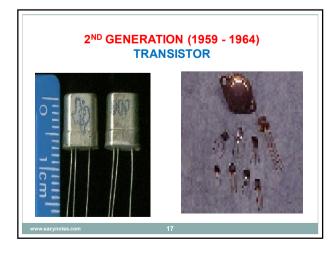
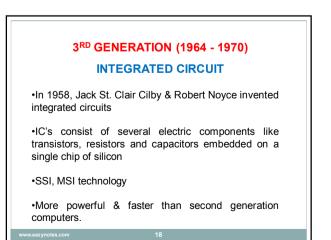


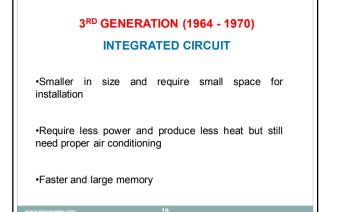
2ND GENERATION (1959 - 1964) 2ND GENERATION (1959 - 1964) TRANSISTOR TRANSISTOR Use of transistors instead of vacuum tubes · Less expensive to produce but still costlier These transistors were made of solid material, some of which · Produce less heat as compared to tubes but air is silicon, therefore they were very cheap to produce conditioning was required Easier to use and handle High level programming languages such as FORTRAN, COBOL were used . · No burning out, but hardware failures were still there · Easier to program these computers · Almost ten times faster than tubes Much smaller than vacuum tubes and generate less heat. · Batch operating system was used

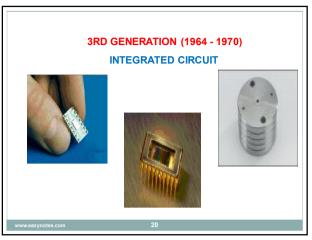


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4TH GENERATION (1971- PRESENT) INTEGRATED CIRCUIT

-Use of IC's with VLSI technology Very Large-scale integrated (VLSI).

•Microprocessors and semiconductor memory

•Larger memory because of larger hard disks and floppy disks and magnetic tapes as portable storage media

•Very less heat hence no air conditioning was required instead fans were used

4TH GENERATION (1971-PRESENT) INTEGRATED CIRCUIT

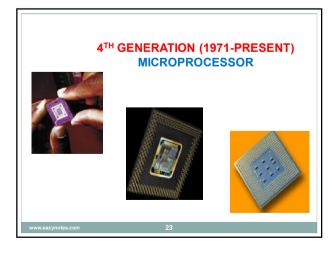
•Graphical User Interface operating systems were used

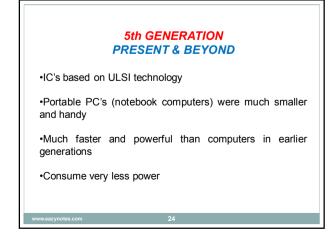
•Very easy to manufacture & maintain them and cost very less

•Very fast as compared to computers in early generations

•Microprocessors led to the invention of personal computers.

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5th GENERATION PRESENT & BEYOND

•Less costlier and easy to manufacture and maintain

•Newer and more powerful applications make computers more easy to use in every field

•Artificial Intelligence (AI) concerns with making computers behave and think like humans.

•Al studies include robotics, expert systems, games, etc..

5th Generation (Present & Beyond) Artificial Intelligence







