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## Ecodesign of electronic devices

## UNIT 8: Microcontroller systems part 1

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## 1.1 Quiz

- PLEASE, CHOOSE THE CORRECT ANSWER:
  - 1. Is microcontroller a computer?
  - 2. Can we use ecodesign processes in microcontroller systems?
  - 3. Does microcontroller contain peripheral units?
  - 4. Does microcontroller contain CPU?
  - 5. Is DSP intended only for signal processing?
  - 6. Is RISC structure more complex than CISC structure?
  - 7. Does Harvard architecture have a separate bus for memory and instructions?
  - 8. Is DRAM faster than SRAM?
  - 9. Is precision of AD converter given with a number of bits?
  - 10. USART is 'Half-duplex' communication?



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## 1.2 Assignment

Describe the difference between RISC and CISC microcontroller structure. Which dynamic memory type do personal computers use for simultaneous data storing? Why do they use this memory type?



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