

Computer Organization and Architecture

Assignment 4

1. Explain the difference between Assembly language and machine language.
2. Explain the concept of Control memory
3. Explain difference between Hardwired Control and Microprogrammed Control Unit.
4. What are Interrupts? Explain the various types of Interrupts.
5. Explain pipelining with its types, also explain its advantages and disadvantages.
6. Explain the characteristics of RISC and CISC architectures .Compare their advantages and disadvantages.
7. Write short notes on the following :
 - a) Program Loops
 - b) Input Output Programming
 - c) Subroutines and its working.
 - d) Microinstruction Format
 - e) Vector Processing
 - f) Array Processing
 - g) General Register organization of the CPU
8. What are addressing modes? Describe all addressing modes.
9. Write the assembly program for expression $X=(A+B)*(C+D)$
 - i) One address instruction
 - ii) Two address instruction