

COMP 3350 - HOMEWORK 3: DATA DECLARATIONS, SMALL PROGRAM

QUESTION 1

SYNCHRONOUS MEMORY READ CYCLE



T_0 : The processor places the address on the address bus.

T_1 : The memory begins to access the location.

T_2 : Memory output drivers put data on the data bus.

T_3 : Processor latches the data, memory read cycle completes.

QUESTION 2

- I. Signed 32 DWORD ? II. Signed 16 WORD 84F1h III. Unsigned 16 WORD 1477h
Unsigned 32 DWORD ?
- IV. Arch String BYTE "Architecture", 0 V. Array 3 DWORD 0F5h, 127h, 0F456A689h
- VI. Number Of Elements EQU (SIZEOF Array3 / TYPE Array3)
- VII. PI EQU 3.1415
Perimeter Of Circle EQU PI * D

QUESTION 3

Orange: CDh, Orange+1: ABh, Apple: CDh, Apple+1: ABh, Apple+2: 34h, Apple+3: 12h,
Mango[0]: 34h, Mango[0]+1: 12h, Mango[1]: 78h, Mango[1]+1: 56h

QUESTION 4

: Add3.asm - Adds three unsigned word-sized integers.

.386

.model flat,stdcall

.stack 4096

ExitProcess proto, dwExitCode: dword

.data

num1 WORD 5

num2 WORD 6

num3 WORD 7

2
.

main proc

movzx eax, num1

movzx ebx, num2

add eax, ebx

movzx ebx, num3

add eax, ebx

invoke ExitProcess, 0

main endp

end main