

Computer Organization and Assembly Language

Final Exam, Spring 2014

Date: 26-05-2014

Marks: 50

Time: 180 mins.

- It is an open book and open notes exam. Write neat and well-commented programs.
- You are not allowed to ask anything during exam. In case you find any ambiguity in a question, clearly state your assumptions and move on.

Question 1:

[12 Marks]

Suppose that data (of a screen saver) of 2000 words of display memory is placed on stack with the last word of display memory (i.e. word at 0xB800:3998) placed at the bottom of the stack. You need to display this data on screen and after each second slide it by n characters towards left starting from the bottom of the screen. Initially the value of n is 2 (i.e. you need to slide each character towards its left by n units), after another second passes by, this value will be 4 (previous value of $n * 2$), after yet another second it will be 8 (previous value of $n * 2$). This will continue till the whole screen data will be rubbed off. Use white foreground to rub data.

Use *string instructions only* to dump and slide data on display screen. No credit will be given without string instructions. Note that you are not required to scroll up rows here neither you are required to slide all rows simultaneously towards their left. You are required to slide characters towards left starting from bottom right corner of screen sliding (smoking) its way up to top left corner.

Let's say initially data dumped on screen is like this. Note the bold alphabets to understand how sliding is going on.

Initial Data:

After 2 sec:

After 4 sec:

This is a sample mini window. It will show how to left slide (shift) each character of screen starting from bottom right corner shifting all the way up towards top left corner.	is is a sample mini window. It will show how to left slide (shift) each character of screen starting from bottom right corner shifting all the way up towards top left corner.	s a sample mini window. It will show how to left slide (shift) each character of screen starting from bottom right corner shifting all the way up towards top left corner.
Hope I have made myself clear.Go	pe I have made myself clear.Go	ave made myself clear.Go

Question 2:

[12 Marks]

BIOS has its keyboard services hooked at int 0x16. Update its "get character" service (ah=0) such that whenever an alphabet's key (a-z, A-Z) is pressed on keyboard, this service returns the ascii of the respective lower case letter (a-z) in al. For every other keystroke, 0x16 behavior remains unchanged. Take reasonable assumptions where needed and state them clearly.

Assembly Language Final Exam Answers

Terry C. Jones



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Table of Contents Assembly Language Final Exam Answers

1. Understanding the eBook Assembly Language Final Exam Answers
 - The Rise of Digital Reading Assembly Language Final Exam Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Assembly Language Final Exam Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Assembly Language Final Exam Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Assembly Language Final Exam Answers
 - Personalized Recommendations
 - Assembly Language Final Exam Answers User Reviews and Ratings
 - Assembly Language Final Exam Answers and Bestseller Lists
5. Accessing Assembly Language Final Exam Answers Free and Paid eBooks
 - Assembly Language Final Exam Answers Public Domain eBooks
 - Assembly Language Final Exam Answers eBook Subscription Services
 - Assembly Language Final Exam Answers Budget-Friendly Options
6. Navigating Assembly Language Final Exam Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Assembly Language Final Exam Answers Compatibility with Devices
 - Assembly Language Final Exam Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Assembly Language Final Exam Answers
 - Highlighting and Note-Taking Assembly Language Final Exam Answers
 - Interactive Elements Assembly Language Final Exam Answers
8. Staying Engaged with Assembly Language Final Exam Answers

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Assembly Language Final Exam Answers
9. Balancing eBooks and Physical Books Assembly Language Final Exam Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Assembly Language Final Exam Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Assembly Language Final Exam Answers
- Setting Reading Goals Assembly Language Final Exam Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Assembly Language Final Exam Answers
- Fact-Checking eBook Content of Assembly Language Final Exam Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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