

**Matching:** match the term in the left column with choices a to f in the right column.

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|------------------|--|
| 1. ___ IDE, SCSI | a. random access memory unit   |
| 2. ___ cache     | b. high speed memory circuits built into CPU   |
| 3. ___ voxel     | c. input/output channel for transfer of data to/from external device   |
| 4. ___ DIMM      | d. interface protocols for hard drive communication with motherboard   |
| 5. ___ EPROM     | e. memory chip which retains information after powering down   |
| 6. ___ port      | f. a 3 dimensional rendered element representing a variable like concentration, temperature, or other property |

**Explain** the function of the following Visual Basic objects: (short answer, 1 sentence)

7. Combo box
8. Command button
9. Form
10. Text box
11. Picture box

12. **Distinguish** between primary and secondary memory.

13. The numeric value of a word in memory has a meaning that depends on its context. We mentioned that a word stored in memory could encode three different things, including data (such as the code for an alphanumeric character) or the address of some other memory location being referenced. What is the other possible "meaning" of a word?

**Define** the following acronyms or explain the terms (single sentences or phrases)

14. CPU
15. bit
16. pixel
17. ALU
18. EEPROM
19. flow chart
20. GUI

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|------------------------------|--|
| 21. ___ assembler            | a. program which converts symbolic language programs into machine language (object) code:  |
| 22. ___ interpreter:program: | b. program that translates and executes high level language one line at a time   |
| 23. ___ operating system:    | c. software controlling computer's basic input/output operations like storing data, running programs                                       |
| 24. ___ debugger             | d. program for checking, correcting a computer program residing in memory by insertion of breakpoints, inspection of variable values, etc. |
| 25. ___ editor:              | e. program allows entry, editing, and storage of source program.   |

Shown below is the form and the code window of a program we discussed in class (FileHandler, but slightly modified here). This program reads a data file of patient names and heights. The two text boxes were given the texts shown in the figure to display at start-up. Answer the following questions.

27. Suppose the program is run and the operator clicks the command buttons “Get Data”, then “Append This Data Entry to the List” and “Save Data File to Disk” in that order. A vertical scrollbar suddenly appears in the listbox window. Why? If the scrollbar is moved to the end of the list box, what new entries are shown?

28. Suppose you’d like to modify the program to show the data in a slightly better format, using a wider and shorter listbox and displaying each name followed by a comma and space, followed by the individual’s height, followed by a space and the word “inches”, each on a single line. How would you modify the code shown in the first subroutine to accomplish this?

29. Exactly what is done when the third subroutine is executed?

The screenshot shows a Windows form titled "Form1" with a standard title bar (minimize, maximize, close buttons). The form contains the following elements:

- Three command buttons on the left side:
  - "Get Data" (top, with a dotted border)
  - "Exit" (middle)
  - "Save Data File to Disk" (bottom)
- A listbox on the right side containing the following text:
  - Joe Smith
  - 70
  - Mary Jones
  - 65
  - Betty Olsen
  - 66
  - Tom Black
  - 72
  - Susan Hall
  - 66
  - Sam Johnson
  - 71
  - Flora Bush
  - 64
  - Jack Read
  - 73
  - Mike Allen
  - 67
  - Jane Blake
  - 68
- Two text input boxes at the bottom right:
  - The top one contains the text "enter name".
  - The bottom one contains the text "enter height".
- A command button at the bottom left:
  - "Append This Data Entry to List"

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```
Private Sub Command1_Click()  
Open "c:\bio595\FileHandlerTest\DataSet6.txt" For Input As #1  
i = 0  
Do Until EOF(1) = True  
Input #1, strPatName(i), strPatHeight(i)  
List1.AddItem strPatName(i)  
List1.AddItem strPatHeight(i)  
i = i + 1  
Loop  
intRecno = i  
Close #1  
End Sub
```

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```
Private Sub Command2_Click()  
End  
End Sub
```

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```
Private Sub Command3_Click()  
Open "c:\bio595\FileHandlerTest\Sample.txt" For Output As #2  
intRecno = List1.ListCount  
For i = 1 To intRecno  
Write #2, List1.List(i)  
Next i  
Close #2  
End Sub
```

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```
Private Sub Command4_Click()  
List1.AddItem Text1.Text  
List1.AddItem Text2.Text  
End Sub
```