



Thank you Zeina
Stay on Top

Amazing
Work

Al Dhafra Private Academy
Performance Task 1
Week 6; Term 1

30
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Super Star

Name: Zeina Ashraf Al Jamal

Date: 4/10/2024 Grade/Section: 9 (A/B)

Domain	Standards	Questions	Marks
Computing Systems / Web Development	9-12.CS.1 / 9-12.CS.2 / 9-12.CS.3	1-3	/14
	9-12.IC.24 / 9-12.IC.30	4	/6
	9-12S.NI.3/ Practice	5	/10

1. Choose the correct answer:

[5 Marks , 1 mark each]

1) Which of the following systems can be integrated with the computing systems?

- a) Biological systems
- b) Mechanical systems
- c) Social systems
- ☒ d) All of the above

2) _____ is an example of embedded systems.

- ☒ a) Pacemaker
- b) Supercomputer
- c) Translating software
- ☒ d) Mobile phones

3) The input and output devices are a part of which level of abstraction?

- ☒ a) Hardware level abstraction
- b) Software level abstraction
- c) Application-level abstraction
- d) None of the above

4) The _____ understands only the machine language, that is, 0s and 1s.

- a) Application software
- ☒ b) Microcontroller
- c) Actuator
- d) Sensor

5) Which of the following features are used in biometric verification?

- a) Iris scanning
- b) Voice recognition
- c) Pin or Password
- ☒ d) Both a and b

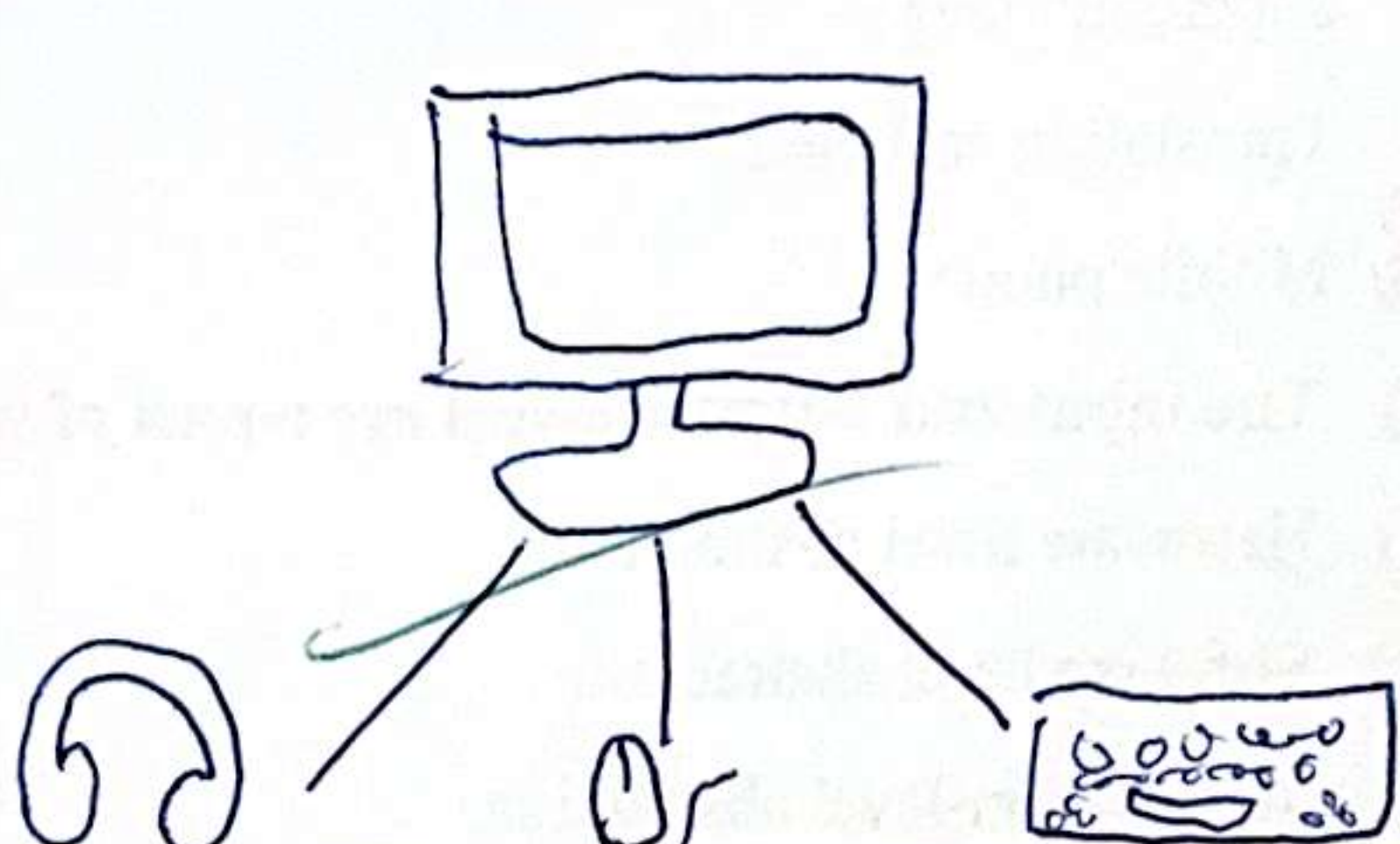
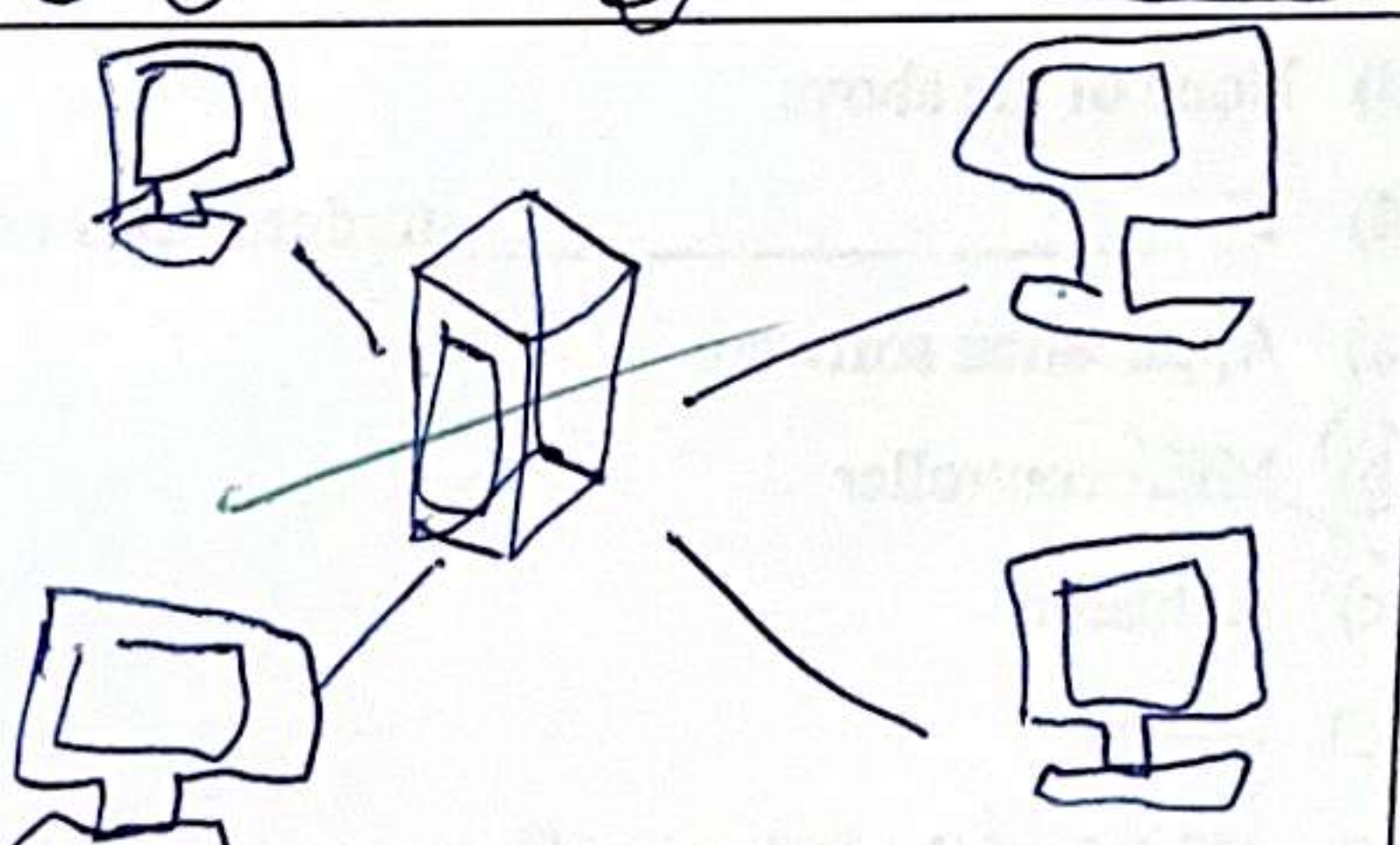
2) Fill in the blank with the correct words from the word bank: [5 Marks , 1 mark e

Device drivers	Microphone	Personal area network	Digital signals	Internet
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- a) The operating system interacts with the hardware through Device drivers
- b) ADC converts analog signals to Digital signals.
- c) In hearing aids, Microphone converts sound waves to electrical signals.
- d) The PAN (Personal area network) is a type of network in which multiple devices within a home network are connected together.
- e) ~~Internet~~ is a global network that connects millions of computers and other electronic devices.
Internet

3) Differentiate between the next terms based on the given criteria:

[4 Marks , 1 mark each

Based on Size	
<u>Personal Area Network</u> is a type of network in which multiple devices within a home network are connected together.	
<u>Local Area Network</u> is a type of network in which multiple computers are connected to one router in a small range such as a house, building, etc.	

4) Write True or False beside each sentence:

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[6 Marks , 1 mark each]

- a) The router is aware of the IP address of the website qubitsedu.com before sending a request to the DNS resolver. (X)
- b) The DNS resolver's role is to look up the unique IP address associated with the domain name that was entered in the web browser. (✓)
- c) The protocol used for communication between devices in this process is called Transmission Control Protocol (TCP). (✓)
- d) Application software is the lowest level of abstraction in embedded systems. (X)
- e) The hardware level in a thermostat includes components such as temperature sensors and microcontrollers. (✓)
- f) When you type a URL into a web browser and press Enter, your device sends a request to the DNS resolver over a local Wi-Fi network. (X)

5) Create a "Book Review" form using HTML. Your form should include the following elements:

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[10 Marks , 1 mark each]

- A main heading of **Book Review**. ✓
- Use the property text-align to for the heading and set its value to center and set its color to #f18180. ✓
- An **input** for the **reviewer's name**. ✓
- An **input** for the reviewer to create a **secure password** (for account access). ✓
- An **input** to indicate if the reviewer would like to **receive updates about new book releases**. ✓
- A set of **radio buttons** to select the **rating of the book** (1 Star, 2 Stars, 3 Stars, 4 Stars, 5 Stars). ✓
- An **input** for the **date the book was read**. ✓
- A **dropdown menu** to select the **genre of the book** (Fiction, Non-Fiction, Mystery, Fantasy, Biography). ✓
- A **textarea** with a **placeholder** for the reviewer to write their **comments or insights about the book**. ✓
- A **submit button** to send the review. ✓

Instructions:

1. Open Visual Studio Code and write the HTML code for a webpage about your favorite animal.
2. Use all of the required tags as part of the structure.
3. Save the file as **Book Review.html** and open it in a browser to view your web page

Your Output Should be like this:

Book Review

Name:

Create a Password :

Receive updates about new book releases ? ☐

Book Rating

1 Star ☐

2 Star ☐

3 Star ☐

4 Star ☐

5 Star ☐

Date Read:

Genre:

Comments:

I can identify the types of data, procedures, and abstraction in embedded systems.	Fully	Partially	struggling
I can analyze the impacts of computing.	Fully	Partially	struggling
I can explore how a connection is established between the communicating devices.	Fully	Partially	struggling
I can understand different types of networks based on transmission medium and size	Fully	Partially	struggling
I can create an HTML form with various input types.	Fully	Partially	struggling
I can use attributes, dropdown and buttons in the form	Fully	Partially	struggling