Homework Quiz - Week 3 Results for Murshed SK

> ⚠ Correct answers are hidden.

Score for this attempt: 10 out of 10
Submitted Dec 19, 2023 at 4:43pm
This attempt took 3 minutes.

⠿

Question 1

1 / 1 pts

Which of the following is _not_ a layer of the Quantum Stack?

○ Quantum Algorithms and Protocols

○ Quantum Circuits

○ Quantum Gates

◉ Quantum Tunneling

○ Quantum Bits

⠿

Question 2

1 / 1 pts

Which of the following best describes a qubit? A qubit is…

◉ The fundamental unit of information in a quantum computer.

○ The way we change quantum states.

○ A quantum transistor.

○ A superconducting loop that operates at very cold temperatures.

○
A bit that can store four different quantum states. It is called a qubit because the states 0, 1, superposition, and entangled are each one quarter of the bit.

⠿

Question 3

1 / 1 pts

Which of the following best describes why Moore's law is said to be ending?

○
Moore's law is based on transistors, but scientists have begun replacing transistors with new technologies like neuromorphic and bacterial computers.

○
Quantum computers have been shown to be better at all tasks than transistor based computers and so Moore's law needs to be modified.

○ It's largely believed that Moore's law is outdated, so many world governments are looking to get rid of this law.

◉

Quantum effects like tunneling cause small enough transistors and, in turn, classical computers to work incorrectly. This means we cannot keep making smaller transistors and therefore more powerful computers.

○

Moore's law was never truly a physical law, instead it was a prediction that turned out to be pretty accurate. So, scientists have begun calling it "Moore's prediction" instead.

⋮⋮

Question 4
1 / 1 pts

In problem #1.2, what is the baby's hunger and mood when you print out these attributes?

○ Happy and crying

○ full and crying

◉ hungry and crying

○ starving and happy

○ full and sad

⋮⋮

Question 5
1 / 1 pts

In Problem #1.4, what is your plant's health?

○ 8/10

○ 1/10

○ 0/10

◉ 10/10

○ 5/10

⋮⋮

Question 6
1 / 1 pts

In Problem #2.1, after you debug your code, what number is printed out?

◉ 51

○ 20

○ 17

○ 21

○ 3

⋮⋮

Question 7

1 / 1 pts

In Problem #2.3, after you debug your code, what is your light <u>INITIALLY</u> turned up to?

○ 15

◉ 0

○ 10

○ 6

○ 7

Question 8

1 / 1 pts

In Problem #2.3, after you debug your code, what level is your light set to?

○ 15

○ 0

○ 10

◉ 6

○ 7

Question 9

1 / 1 pts

In Problem #2.3, after you debug your code what is the wetness of the soil?

○ 10/10

◉ 0/10

○ 8.200000000000001/10

○ 6.035444/10

○ 3.14/10

Question 10

1 / 1 pts

In Problem #2.4, after you debug your code, what is the value of x1 and x2?

○ x1 = -3.0 and x2 = - 3.0

○ x1 = -2.0 and x2 = -7.0

○ x1 = -4.0 and x2 = 3.0

- ⦿ x1 = -3.0 and x2 = - 5.0
- ◯ x1 = -9.0 and x2 = - 1.0