1. Using the provided clues, can you identify the skilled individuals.

[designer, computer engineer, project manager, tester, programmer]

a. Safa is skilled in writing programs. She creates the software for games and other programs. Safa is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

b. Ali is expert in finding the bugs in the program. Ali is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

c. Anas assigns tasks, tells each member of the team what they have to do and ensures the task is done on time. Anas is the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

d. Eman is responsible for how a program looks and feels to the user. Eman is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

e. Abdullah understand how hardware works together with the software. Abdullah is the

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

2)Mark True or False for the following statement.

1. Zero represents the state when the device is on.
2. The binary number system is used by computer to represent data.
3. Every character on a keryboard is represented by the same patterns of ones and zeros.
4. Byte is the smallest unit of storage in a computer.
5. One byte represents one character.
6. The binary code of an uppercase and a lowercase letter is same.
7. Binary number system consists of 0 and 1.

3) "Considering the specific requirements and constraints of each scenario analyze the choice between SSDs and HDDs for optimal performance and cost-effectiveness?"

a. Scenario 1: A gamer is building a new PC. The gamer prioritizes fast load times and

quick access to game data. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. Scenario 2: A video editor requires reliable storage for large project files. The editor needs both speed for editing and high capacity for storing multiple projects. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c. Scenario 3: A small business is setting up a data backup solution. The business requires large amounts of storage for backups but is less concerned about speed. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d. Scenario 4: A student is purchasing a new laptop for school. The student wants a

lightweight, portable device with quick boot times. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4) List three computing tools that can be used when carrying out a data study.

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5) Differentiate between discrete data and continuous data.

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