Scholarly activity

Your Name (First M. Last)

School or Institution Name (University at Place or Town, State)

**SCHOLARLY ACTIVITY**

**Information:**

Information is some meaningful knowledge acquired by interpreting the data. In other words, information is obtained through the data that has been analyzed. For instance, a random number, i.e. 12357648 cannot be used or processed unless there is some information about it. Let’s say, the figure is phone number, now this information can be used to process the data.

**Data:**

Data is a raw material that needs to be processed to acquire some meaningful information. It is a computer language. It can be uncleaned facts, images, figures, and statistics to develop some meaning through proper processing and interpretation. For instance, (124377, 263735) this data is useless until processed or used as a specific context.

**Matrices of Information and Data:**

**Difference between Information and Data**

The first main difference between data and information is its material. Data is the raw material which does not contain any sort of information, and it is unclear while information is well-defined material which provide us useful meaning about the data that is processed. Data is the input language or a computer language that means it is the material that we put in the computer to develop information. On the other hand, information is the output language as it is the final and useful appearance of the raw data (“What is the difference between data and information?,” n.d.). After processing the input language i.e. raw data we take out language (information) for further use or acquire meaning.

Another difference between data and information is dependence. Data is independent of information. It does not use or need any sort of information. Information totally depends on the data, and it cannot be processed if data is unavailable. Data is not specific as a raw data can be used to derive for more than one information for example heights of the students can be used to acquire information about the average height as well as to measure the healthcare factors. Information is specific that means information derived from the data give us meaning about a specific topic or term.

**Information Technology:**

IT is the technology which is used for networking, computers, physical devices, and electronic data. In other words, it is used in oppose to personal technologies. It is an enterprise operation. For instance, a person who is IT skilled would have skills of using graphics or writing skills, PowerPoint, spreadsheet, Microsoft word and excel, and many other data processing equipment.

**Information System:**

It is the academic study about the systems. The study specifically refers to the information about the hardware and software networks which is used by the individual to collect, analyze, process, and interpret the data. For example customer relationships and transaction processing systems.

**Five component model:**

Five component model is helpful to understand the information technology and information system (“What is the difference between information systems and information technology?,” n.d.). It includes people, hardware, software, data, and procedure. Let us use this model to learn the difference between IT and IS.

* **People:**

People are the most important component of the information system. They include programmers, operations managers, business and systems analysts, and operators, etc. Although information technology lies under the umbrella of information system people within this field are more professional and skilled than the information system people.

* **Hardware:**

All the output and input devices along with telecommunication gear and magnetic storage disks develop the hardware of information system. Information technology handles all the problems and issues related to the hardware of IS.

* **Software:**

In an information system, two types of software are includes which are application software and system software. Within information technology software is used to handle the workload of people.

* **Data:**

Data within the information system include product statistics and employees records. IT use the data through different software to get information.

* **Procedure:**

It is the maintenance of the information system through operating and establishing the information. Within the IT a proper structured analysis and procedure are made to develop information.References

What is the difference between data and information? (n.d.). Retrieved March 4, 2019, from https://www.researchgate.net/post/What\_is\_the\_difference\_between\_data\_and\_information

What is the difference between information systems and information technology? (n.d.). Retrieved March 4, 2019, from https://www.researchgate.net/post/What\_is\_the\_difference\_between\_information\_systems\_and\_information\_technology