** *ASSIGNMENT #02***

***TITLE:DIFFERENTIATE BETWEEN ANALOG AND DIGITAL ELECTRONICS***

***COURSE:BASIC ELECTRONICS***

***STUDENT ID:CSC-17F-047***

***CLASS:BSCS***

***SECTION:1B***

***SUBJECT:BASIC ELECTRONIC***

***SUBMITTED BY: SUBMITTED TO:***

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* ***ANALOG ELECTRONICS:***

Analog is an unbroken signals, which have time variable structures to representation of time variable amount. It uses to collect unbroken range of signal to represent an information. For example: human voice in air or analog electronic devices. It is used to transmit information by electric signals. It is translate into electric pulses. It gives more exact values but not easy for work.

***advantages of analog:***

1. Appropriate for audio and video broadcast.
2. It is good for all because it takes low cost and also portable.
3. It takes greatly advanced density that can present extra superior information.
4. No need to buying a new graphics board.
5. It is easy in processing.
6. It density is so higher.
7. It gives infinite data.

***DISAVANTAGES OF ANALOG:***

1. It is more like that to become affected dropping accuracy.
2. Analog devices commonly have a scale which is restricted at the lower end and give observational zone.
3. analog tends that a lower quality than digital.
4. The cables are sensitive to external influences.
5. It gives annoying voices during recordings.
6. When it transmits data huge with long distance then there is disturbance.

***APPLICATIONS :***

1. Thermometer
2. T.V
3. Audio tapes

* ***DIGITAL ELECTRONICS:***

Digital is a broken signals, it represent the information either broken, like numbers, sound, images and any others which is measured of unbroken system. It uses to collect discontinuous values to represent an information. For example: computers and any other electronic devices. It is used to transmit information by electric signals. It is translate into binary digits. It not gives exact values like analog but easy to work.

***ADVANTAGES OF DIGITAL:***

1. It is minus affected.
2. It is good for computing.
3. There isn’t error in digital instruments like parallax and approximate errors.
4. It has high range of signals but not reach far.
5. Digital lines travel fast because of its nature.
6. It has ability of transferring more data than analogue.

***DISADVANTAGES OF DIGITAL:***

1. It takes high cost and not portable.
2. Short availability of models with digital boundaries.
3. It needs graphic board and digital productivity.
4. Its system and processing is complex.
5. Its greater bandwidth is essential.

***APPLICATIONS :***

1. PCs
2. Cell phones