WORKSHEET 10

School: Ba Sangam College   **Year / Level: 11**
Subject: Computer Studies   **Name of Student**: _____

Strand	2 – Application Packages
Sub strand	2.1 Using Application Software
Content Learning Outcome	Identify and analyze software

Graphic suites

 Graphics suites are the bundling of the separate graphics programs as a group. The advantage of the graphics suites is that a large variety of graphics programs can be purchased at a lower cost.

Audio and Video
❖ Using audio and video editing software enables user to compile movies.
❖ *Video editing software* allows one to reorganize, add effects and more to the digital video footage.
❖ *Audio editing software* allows user to create and edit audio clips.
❖ Most audio editing software has features that allow you to add audio effects, like filters, to your tracks.

Multimedia
❖ *Multimedia* also called **hypermedia** is the integration of all sorts of media into one form of presentation.
❖ The media may include video, music, voice, graphics, and text.
❖ An essential and unique feature of multimedia is user participation or interactively.

Web Authoring
❖ *Web authoring* programs are typically used to create sophisticated commercial sites.
❖ Also known as Web page editors and HTML editors, these programs provide support for web sites design and HTML coding.
❖ Widely used authoring programs include Macromedia, Dreamweaver, Net Objects

Fusion and Microsoft FrontPage.
Artificial intelligence (AI)
❖ Attempts to develop computer systems that can mimic or simulate human senses, thought processes and actions.
❖ These include reasoning, learning from past actions and using senses such as vision and touch.
❖ Three areas which human talents and abilities have been enhanced with computerized intelligence: robotics, knowledge-based systems, and virtual reality.

Robots
❖ are computer-controlled machines that mimic the motor activities of humans and some are used for household activities, entertainment purposes, while most are used in factories and hazardous environment to handle dangerous, repetitive tasks with high degree of precision.

Industrial Robots
❖ Are used in factories to perform assembly-line tasks and also capable of performing a variety of tasks.
❖ This includes machines which are used in automobile plants to do welding, polishing, and painting.
❖ Some types of robots have claws for picking up objects and handling dangerous materials.

Mobile Robots
• Are those which act as transports and are widely used for a variety of tasks

- For example, the police and the military use them to locate and disarm explosive devices.

Humanoids

- Are designed to look exactly like humans.
- It is programmed to mimic actual human behavior like talking, walking and making gestures.
- Humanoids are becoming popular as ushers, waitresses and shop attendants.

Knowledge-based systems

- ❖ Also known as expert systems are computer programs that provide advice to decision makers who would otherwise rely on human experts.
  - ❖ These expert systems use knowledge bases that contain specific facts, rules to relate these facts, and user input to formulate recommendations and decisions.

- ❖ Expert systems have been developed in areas such as medicine, geology, architecture, military science, financial analysis and nature.

Virtual reality

- ❖ Incorporates interactive sensory equipment (headgear and gloves) allowing users to experience alternative realities generated in 3-D by a computer, thus imitating the physical world.
- ❖ The headgear has earphones and three-dimensional stereoscopic screens.
- ❖ The gloves have sensors that collect data about your hand movement. Coupled with software, this interactive sensory equipment lets you immerse in a computer-generated world.

ACTIVITY

1.What is the advantage of graphic suites? (2 marks)

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2.Differentiate between video editing and audio editing (2 marks)

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3.Discuss web authoring program (2 marks)

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4.Define artificial intelligence (2 marks)

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5.Differentiate between industrial robots and mobile robots (2 marks)

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6. Give one area where the following artificial intelligence can be used (3 marks)

- **Humanoids** _____

- **Virtual reality** _____

- **Knowledge based system** _____