



**GRADE : VIII**

**COMPUTER**

**SPECIMAN COPY**

TERM - II

YEAR 2022 – 23

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**KEYWORDS:**

- Photoshop: An image editing software.
- Resolution: Refers to the number of pixels.
- RGB : Stands for Cyan, Magenta, Yellow and Black.

**ENRICH YOURSELF:**

- Right click on the Adobe Photoshop CS6 application in the start menu, and select Pin to start.
- All panels of the Photoshop can be placed anywhere on the screen.
- If you want to select an elliptical or circular area of an image, you can use the Elliptical Marquee Tool.

**INFO:**

- **Thomas Knoll**, invented the first version of **Adobe Photoshop** in 1987 known as **Display Program**.
- **Photoshop files are saved with .psd/.pdd extensions.**

**FAST FORWARD:**

- Press M to simply select the Rectangular Marquee Tool.
- Press L to select the Lasso Tool.
- You can deselect the selected area by pressing **Ctrl + D** keys.

**EXERCISES:**

**Q: A Tick (✓) the correct options.**

- 1) Which of the following is not a selection tool?
  - a) Lasso
  - b) Rectangular Marquee
  - c) **Paint Bucket**
- 2) Which of the following is used to select an image or part of it in circular shape?
  - a) Rectangular Marquee
  - b) Brush
  - c) **Elliptical Marquee**
- 3) What is the default extension of an Adobe Photoshop file?
  - a) **.PSD**
  - b) .psp
  - c) .ppp
- 4) Which tool allows to remove unwanted portion of an image?
  - a) Move Tool
  - b) Cut
  - c) **Crop**
- 5) Which tool is used for making freehand selection?
  - a) Brush
  - b) **Lasso**
  - c) None

**Q: B Fill in the blanks.**

- 1) Working area of photoshop is called canvas
- 2) The panel dock contains various panels of photoshop.
- 3) Every Photoshop CS6 document contains at least one layer.
- 4) Resolution refers to the number of pixels.
- 5) The large dark Grey area in Photoshop window is called workspace.

**Q: C State True or False.**

- 1) Photoshop is an image – editing software. **True**
- 2) You can show or hide all the panels by pressing Tab key. **True**
- 3) Tools panel is placed in the left most corner of the screen by default. **True**
- 4) Only one layer can be added to a document. **False**
- 5) Styles panel allows to view, select and apply preset layer styles. **True**

**Q: D Match the columns.**

**Column A**

- 1) Ctrl + D
- 2) Window menu
- 3) Double arrows on a panel
- 4) Small triangle.
- 5) Place option

**Column B**

- a. To collapse or expand panels.
- b. To deselect the selection
- c. To select a panel
- d. To place multiple files on the canvas.
- e. To view hidden tools

**Ans: 1- B, 2- C, 3- A, 4- E, 5-D**

**Q: E Short Answer questions.**

- 1) What is Photoshop?

Ans: Photoshop is an image editing software developed by Adobe Systems.

- 2) What is the use of Layers panel?

Ans: It displays all layers, groups and layers effects of graphics and helps to work on different levels that can be viewed and edited as individual units.

- 3) What is the use of Crop Tool?

Ans: The Crop Tool allows you to remove unwanted area of an image.

- 4) List names of any five tools of the Tools panel in Photoshop.

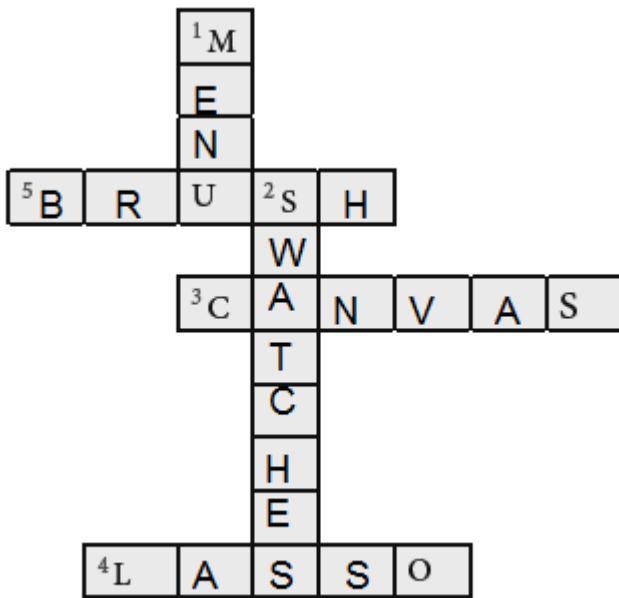
Ans: Move Tool, Blur Tool, Lasso Tool, Crop Tool, Clone Stamp tool

- 5) Write down the names of two Selection tools.

Ans: Rectangular Marquee Tool, Lasso Tool and Crop Tool

## BRAIN TEASER:




Q: A Solve the crossword with the help of the given clues:



Clues:

- 1) It is the topmost bar of photoshop window.
- 2) It is a panel that allows to select brush color, mode and opacity.
- 3) It is a rectangular white area.
- 4) It is used to make freehand selections.
- 5) It fills the image with strokes of desired colors.

Q: B Identify the selection on images.

- 1)  - Rectangular
- 2)  - Elliptical
- 3)  - Freehand

**KEYWORDS:**

- **Edge:** A line segment on the boundary.
- **Pixel :** A tiny area of illumination on a display screen, one of many from which an image is composed.
- **Adjacent :** Close to or near something.

**INFO:**

- **Press the Alt** key while dragging the image using the **Move** Tool, it will give a copy of the selected image.

**EXERCISES:****Q: A Tick (✓) the correct options.**

- 1) Which of the following is not a selection tool?
  - a) Magic Wand Tool
  - b) Lasso. Tool
  - c) Stamp Tool
- 2) Which tool is used to remove the unwanted part of an image?
  - a) Stamp Tool
  - b) Eraser Tool
  - c) Clone Tool
- 3) Which tool is used to relocate an image?
  - a) Eraser Tool
  - b) Gradient Tool
  - c) Move Tool
- 4) Which tool selects similar pixels on an image and allows you to delete them?
  - a) Eraser Tool
  - b) Magic Eraser Tool
  - c) Crop Tool
- 5) Which of these holds the selected Tool's properties?
  - a) Options bar
  - b) Tools panel
  - c) Selection bar

**Q: B Fill in the blanks.**

- 1) The pattern Picker box contains the created patterns.
- 2) Photoshop provides three variations of Eraser Tool.
- 3) You need to select an image prior to moving it.
- 4) Higher the opacity, more the number of pixels erased.
- 5) Resolution refers to the number of pixels.

**Q: C State True or False.**

- 1) The Magic Wand Tool helps you select defined areas of an image **False**
- 2) The Text Tool is used to add images. **False**
- 3) The Spot Healing Brush Tool repairs the imperfections of an image. **True**
- 4) Gradient Tool is used to fill an area with a range of colors. **True**
- 5) Stamp Tool also helps you move the images. **False**

**Q: D Match the columns.**

**Column A**

- 1) Magic Eraser
- 2) Gradient Fill
- 3) Quick Selection
- 4) Spot Healing Brush
- 5) Pattern Stamp

**Column B**

- a. Fills selected part of image with blend of colors
- b. Paints an image using predefined pattern.
- c. Clears the unwanted spots in an image.
- d. Erases the same colored pixels.
- e. Select the defined edges of an image.

**Ans: 1 – d, 2 – a, 3 – e, 4 – c, 5 - b**

**Q: E Short Answer questions.**

- 1) List any two Selection tools?

Ans: Lasso Tool, PaintBucket Tool

- 2) Write the use of Move Tool?

Ans : The Move Tool is used to move images or part of images from one location to another.

- 3) Describe the use of Text tools.

Ans : The Text Tool is used to add text in an image.

- 4) List any two Eraser Tools.

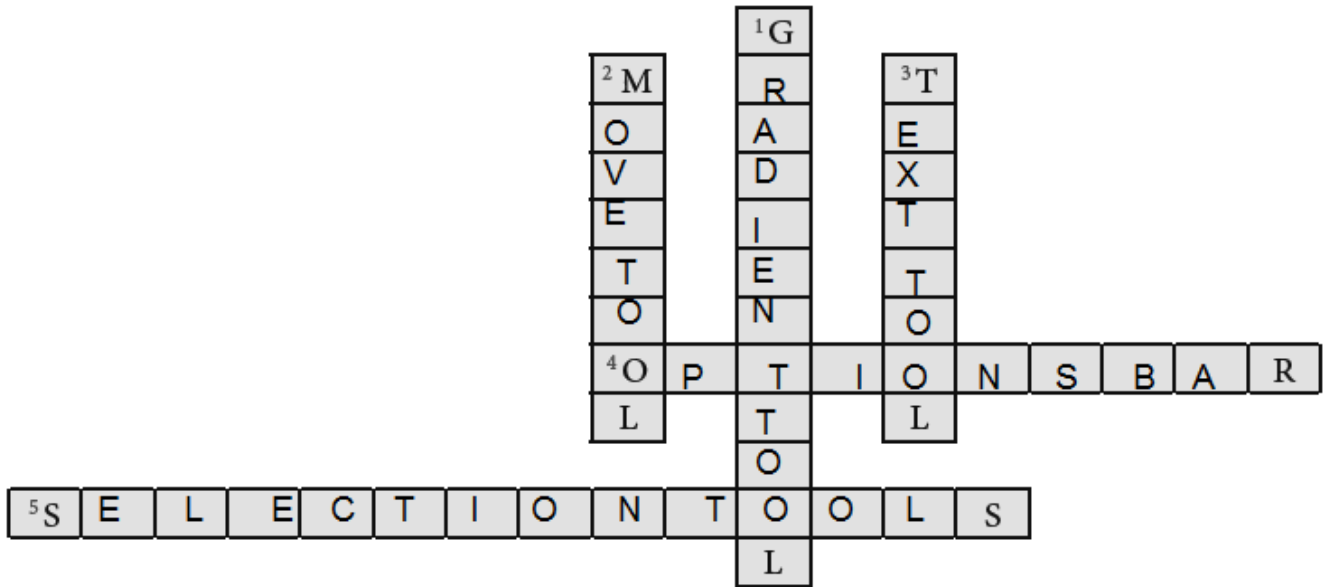
Ans : Background Eraser Tool and Magic Eraser Tool

- 5) What is Gradient Tool?

Ans : The Gradient Tool creates blend of two or more colors and fills an area or an entire image.

## BRAIN TEASER:

Q : A Solve the crossword with the help of the given clues.



Clues:

- 1) It creates blend of two or more colors.
- 2) It is used to move selected part of image at the new location.
- 3) It helps in adding text to the image.
- 4) It holds different options for the selected Tool.
- 5) These tools help in selecting an area of the image or the entire image.

Q: B Identify these tools and name them.

1. Quick selection tool
2. Eraser tool
3. Pattern stamp tool
4. Healing brush tool
5. Text tool

## WORKSHEET 3

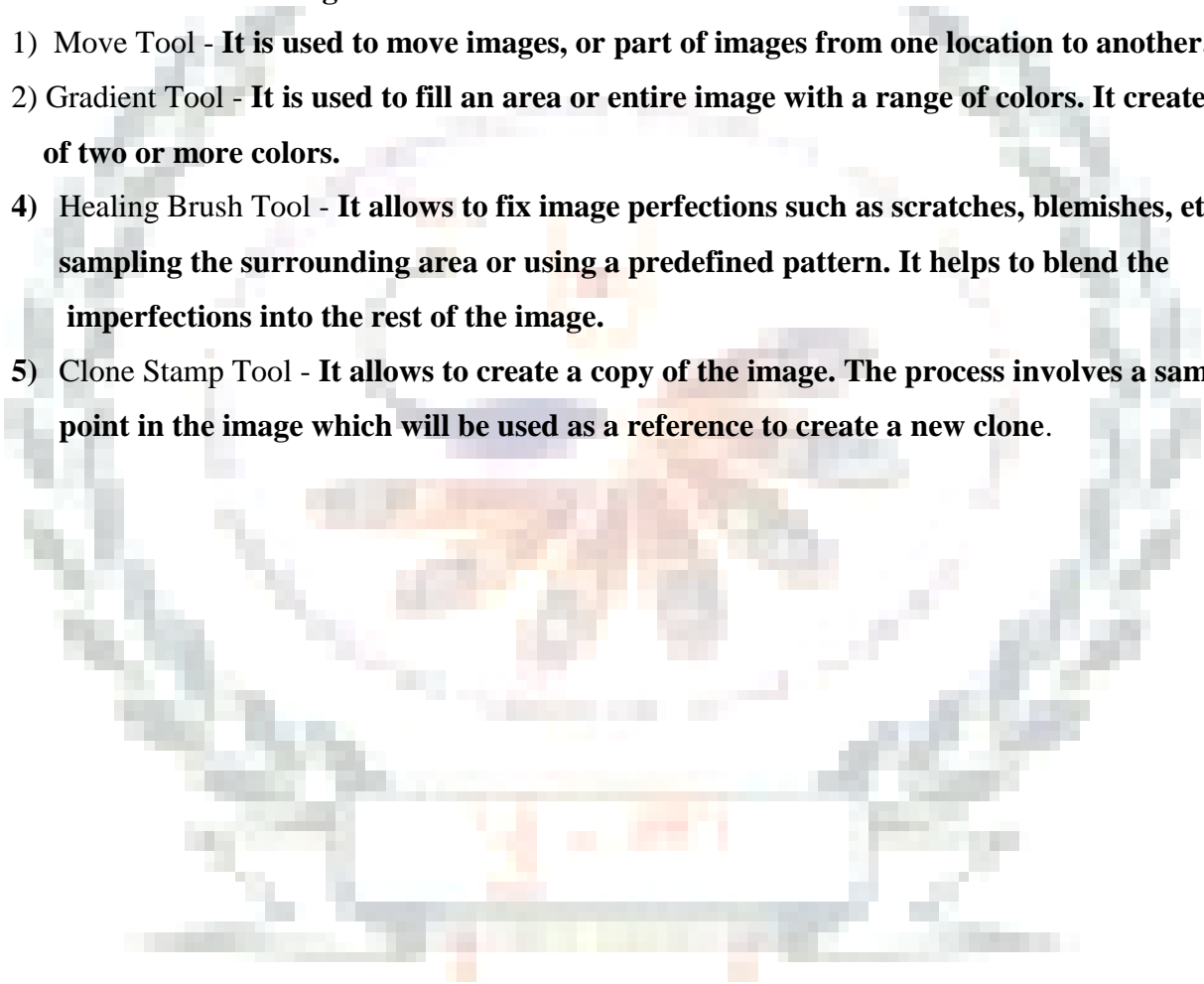
**Q: A** Solve the following crossword with the help of the given clues.

**Hints:**

- 1) It selects the adjacent area of the same color pixels in an image.
- 2) It is a large dark Grey area in the Photoshop window.
- 3) It is a rectangular window that appears with an empty white canvas.
- 4) It helps you to paint your image as desired in Photoshop.
- 5) It contains some different panels.

**Q: B** Describe the following.

- 1) Move Tool - **It is used to move images, or part of images from one location to another.**
- 2) Gradient Tool - **It is used to fill an area or entire image with a range of colors. It creates blend of two or more colors.**
- 4) Healing Brush Tool - **It allows to fix image imperfections such as scratches, blemishes, etc. by sampling the surrounding area or using a predefined pattern. It helps to blend the imperfections into the rest of the image.**
- 5) Clone Stamp Tool - **It allows to create a copy of the image. The process involves a sampling point in the image which will be used as a reference to create a new clone.**







**Q: D Match the columns.**

**Column A**

- 1) Loop
- 2) Start and step
- 3) The else statement
- 4) The range () function
- 5) List

**Column B**

- a. A built – in function
- b. It can contain different data types.
- c. A repetitive structure
- d. Argument of the for loop
- e. It can be used in for and while loops.

**Ans: 1- C, 2 – D, 3 – E, 4- a, 5 – B**

**Q: E Short Answer questions.**

- 1) What is loop?

Ans A loop is a sequence of instructions that is continually repeated until a certain condition is met.

- 2) What is loop index?

Ans The iterating variable, which is located after the keyword for is called the loop index.

- 3) What is the role of else statement in the while loop?

Ans If we use the else statement with a while loop, the else statement is executed when the condition/expression associated with the while statement becomes FALSE.

- 4) What is infinite loop?

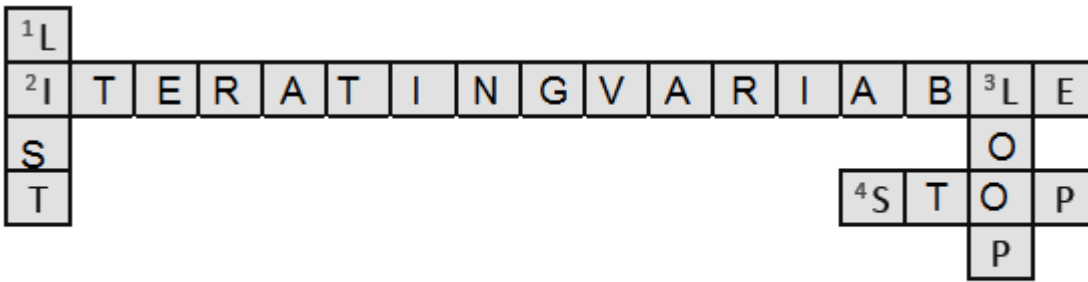
Ans A loop becomes infinite loop if a condition never becomes FALSE. This results in a loop that never ends. Such a loop is called an infinite loop.

- 5) Describe a list.

Ans List is a sequence data type. It is a series of values which are assigned by placing them within square brackets and separating them by commas.

## BRAIN TEASER:

Q: A Solve the crossword with the help of the given clues



Clues:

- 1) It is a series of values which are assigned by placing them within square brackets and separating them by commas.
- 2) It is located after the for keyword and called the loop index.
- 3) It causes a section of your program to be repeated a certain number of times.
- 4) It is the last number of range where the range of a loop will end.

Q: B Write the correct syntax for each of the following.

1. Syntax of a for loop is:

**for** <iterating\_var> **in**

<sequence>:

statements(s)

**else:**

statements(s)

2. Syntax of while loop while expression:

statement(s)

statement(s)

3. Syntax of a for loop with range function for <iterating\_var> in

range(start, stop [, step]):

statements(s)

**else:**

statements(s)

4.

Syntax of nested while loop
<pre>while expression:     statements(s)     while expression:         statement(s) statement(s) </pre>

**KEYWORDS:**

- **Computer ethics:** Set of rules and regulations that govern the behaviour of an individual or a group while using the Internet.
- **Cybercrime:** A crime or activity that is done over the Internet using a computer.
- **Cyber security:** preventive measures to protect computer from hardware, software and data damage.

**ENRICH YOURSELF:**

- Like hacking, we often listen a term 'cracking' in computer online world. It is an act of breaking into a computer/ network and violating the system integrity with some malicious intent. Having gained unauthorized access, crackers can destroy vital data, deny legitimate user service, or cause problems for their targets.

**INFO:**

- The term Computer Ethics was first coined by Walter Maner.
- Anti-virus software is used to safeguard a computer from all types of viruses.

**EXERCISES:****Q: A Tick (✓) the correct options.**

- 1) The symbol © represents \_\_\_\_\_.
  - a) **Copyright**
  - b) Privacy
  - c) Priority
- 2) Fooling people with attractive fake offers is called \_\_\_\_\_.
  - a) Phishing
  - b) **Scam**
  - c) Malware
- 3) A person who steals the personal information of someone for causing frauds.
  - a) Cracker
  - b) Programmer
  - c) **Hacker**
- 4) It refers to the unauthorized copying, distribution or use of software.
  - a) Software overuse
  - b) **Software piracy**
  - c) Identify theft.
- 5) Computers make human life \_\_\_\_\_.
  - a) **Simple**
  - b) Complex
  - c) Independent

**Q: B Fill in the blanks.**

- 1) Hacking refers to the unauthorized **intrusion** to a network or a computer.
- 2) A **worm** is a small piece of computer program that uses computer networks and security holes to replicate itself.
- 3) **Cyber Security** refers to measures to make the cyberspace safe and secure.
- 4) Criminals who perform illegal activities in cyberspace are referred to as cyber **criminals**.
- 5) A Trojan horse is an example of a **virus**.

**Q: C State True or False.**

- 1) Cybercrimes are performed using the Internet. **True**
- 2) Trojan horses have no way to replicate automatically. **True**
- 3) Counterfeiting is the illegal distribution of the software applications. **True**
- 4) Invading someone's privacy is a crime by law. **True**
- 5) Copyright is used for protecting publishing rights. **Fals**

**Q: D Match the columns.**

**Column A**

- 1) Intellectual property right
- 2) Cyber Security
- 3) Internet piracy
- 4) Malware
- 5) Phishing

**Column B**

- a. Installing key loggers.
- b. Sending fake emails
- c. Install Anti-virus and firewall.
- d. Stealing someone 's ideas
- e. Downloading pirated software online

**Ans: 1- D, 2- C, 3- E, 4- a, 5- b**

**Q: E Short Answer questions.**

- 1) Define Computer Ethics.

Ans Computer Ethics are the set of rules to ensure safe use of computers.

- 2) What do you understand by privacy?

Ans It is a state in which one is not observed or disturbed by other people.

- 3) What is a virus?

Ans A computer virus is a type of malicious software that, when executed, replicates itself by modifying other computer programs and inserting its own code. When this replication succeeds, the affected areas are then said to be "infected" with a computer virus.

- 4) Write down few cyber Security tips.

Ans A few cyber security tips are:

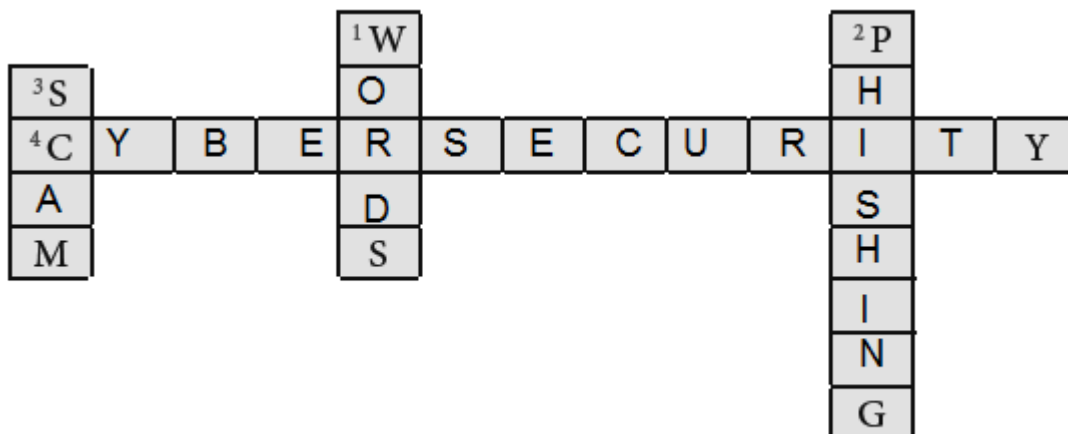
- i. Use strong passwords.
- ii. Secure your computer:
  - a. Activate your firewall.
  - b. Use antivirus.
  - c. Block spyware attacks.
- iii. Be social media savvy.
- iv. Secure your mobile devices.
- v. Uninstall unnecessary software.
- vi. Maintain backups.
- vii. Check security settings.

5) Define cyber terrorism.

Ans Cyberterrorism is the use of the Internet to conduct violent acts that result in, or threaten, loss of life or significant bodily harm, in order to achieve political gains through intimidation.

### BRAIN TEASER:

Q: A Solve the crossword with the help of the given clues.



Clues:

- 1) Computer programs that replicate themselves.
- 2) It is a process of sending fake emails to get user's personal information.
- 3) It makes fool of the users by providing attractive offers.
- 4) Measures used for preventing cybercrimes.

B Complete the sentences.

- 1) Ethics are the **set of rules and regulations that govern the acceptable behavior of an individual or a group while using a computer.**
- 2) Worms **are standalone malware computer program that replicates itself in order to spread to other computer.**
- 3) Malware is **Targets user's financial information by installing keyloggers onto the user's computer.**









## WORKSHEET 4

**Q: A** Solve the following crossword with the help of the given clues.

### Hints

- 1) It executes a block of statements interactively until a certain condition is met. **LOOP**
- 2) It refers to unauthorized intrusion into a computer or a network. **HACKING**
- 3) It is a standalone malware computer program that replicates itself. **WORM**
- 4) It is a technique of making a process or system to operate automatically. **AUTOMATION**
- 5) These are the set of rules and regulations that govern the behaviour of an individual or a group while using the Internet. **ETHICS**

**Q: B** Describe the following.

- 1) Infinite loop: **A loop becomes infinite loop if a condition never becomes FALSE. This results in a loop that never ends. Such a loop is called an infinite loop.**
- 2) Copyright : **The dictionary defines copyright as “a person’s exclusive right to reproduce, publish, or sell his/her original work of authorship (as a literary, musical, dramatic, artistic, or architectural work)**

**Copyright is a form of intellectual property protection provided by the laws of the United States.**

**The primary objective of copyright law is to protect the time, effort and creativity of the creator’s Work**

- 3) Privacy : **It is a state in which one is not observed or disturbed by other people. It is an important aspect of life. It is illegal to go against the privacy of any other person without their consent and if anybody is permitted to view someone’s information, he/she should not disclose it to other people.**
- 4) AI : **According to John McCarthy, AI is: “The science and engineering of making intelligent machines, especially intelligent computer programs”.**

**Artificial Intelligence is a way of making a computer, a computer-controlled robot, or a software think intelligently, in the similar manner the intelligent humans think.**