SESSION: 2024-25

CHRONICLE

CHAPTER: 7 & 8
SUBJECT: COMPUTER
Chapter Name- Algorithms and Flowcharts
Chapter Name- Introduction to HTML5 and CSS3

CHAPTER: 7

Chapter Name- Algorithms and Flowcharts Review

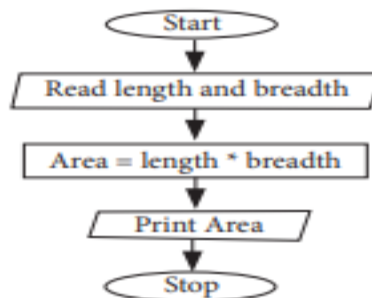1. Write any three characteristics of a good algorithm.

Ans. Three Characteristics of a good algorithm

- Precision: Each step of a good algorithm is precisely defined.
- Uniqueness: The result of each step should be uniquely identified and only depend on the result of the Presenting step.
- Input: It should have a well-defined input

LAB TIME:-

1. Draw a flowchart to calculate the area of a rectangle.

Ans. Flowchart for Area of a Rectangle

EXERCISES:-

A. Write 'T' for true and 'F' for false statements.

1 An algorithm is a set of steps in a sequential manner to solve a given problem. [T]

2. We cannot create a flowchart without using symbols. [T]

3. The decision symbol is used to take decisions. [F]

4. Two flow lines are used to connect the Start and Stop symbols. [F]

B. Tick (√) the correct option.

1. A set of instructions is called a ....

a. Flowchart

b. **Program**

c. Procedure

d. None of these

2. An algorithm is always written in a/an .... language.

a. **simple**

b. precise

c. both a. and b.

d. none of these

3. Which of the following is used to join the parts of a flowchart?

a. Circle

b. **Arrows**

c. Diamond

d. Rectangle

4. .... is a mechanism that helps to perform a task repeatedly.

a. Algorithm

b. Flowchart

c. Program

d. **Loop**

C. Complete the sentences using the words given in the box.

1. Every step of the **algorithm** should be a separate line.

2. A **flowchart** is a diagrammatic representation of an algorithm.

3. Every flowchart has a Start and **Stop** symbol.

4. The **output** symbol is used to display results in flowcharts.

D. Answer the following questions.

1. What do you understand by an algorithm?

Ans. An algorithm is a set of steps in a sequential manner to solve a given problem.

2. What is a flowchart? What are the features of a flowchart?

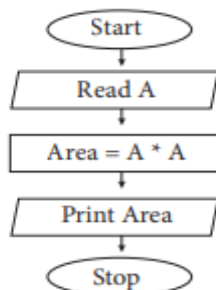Ans. A flowchart is a diagrammatic representation of an algorithm.

Features of a Flowchart – Every flowchart has a start symbol and a stop symbol. – The general direction of flow in any flowchart is from top to bottom or left to right. – Only one flow line should come out from a process symbol. – Only one flow line is used to connect the top symbol.

3. Explain the basic rules that we must follow while drawing a flowchart.

Ans. Rules for drawing a flowchart: – While drawing a proper flowchart, all necessary requirements should be listed out in a logical order. – The flowchart should be clear, neat and easy to follow. – Only one flow line should be used in conjunction with the terminal symbol. – There should not be any intersection of flow lines. – If the flowchart becomes complex, it is better to use connector symbols to reduce the number of flow lines.

4. Write a flowchart to calculate the area of a square.

Ans. Flowchart to calculate the area of a square:

Activity Corner

Write an algorithm to convert the temperature from Celcius to Fahrenheit.

Ans. Algorithm to convert temperature from Celsius to Fahrenheit :

Step 1 : Start

Step 2 : Read temperature in Celsius as 'C'.

Step 3 : Calculate temperature in Fahrenheit as F = 9 5 × c + 32

Step 4 : Display F

Step 5 : Stop

Introduction to HTML5 and CSS3

Review

1. Read the hint and name the CSS style 1. This style uses a separate file.

   Ans. External style sheet It fills enclosed areas of a drawing with color.

2. This style is used to create and apply a unique style for a single element.

   Ans. In-line style sheet

3. This style is used when one web page has a unique style.

   Ans. Internal style sheet

A. Write 'T' for true and 'F' for false statements.

1. HTML is a platform dependent language. [F]

2. Tags and attribute names are case-sensitive. [F]

3. The<TITLE> tag is given inside the <BODY>tag. [F]

4. Each tag in HTML follows specific rules and syntax. [T]

5. An external style sheet needs a specific text editor to write a code. [F]

B. Tick (√) the right option.

1. The term 'Hypertext' was coined by Ted Nelson around ....
a. 1947 **b. 1965** c. 1995 d. 2000

2. .... is used to view on HTML document.
a. Text editor **b. Web browser** c. Attribute d. None of these

3. There are mainly .... types of HTML editors.
a. two b. three c. four d. five

4. The .... has opening and closing tags.
a. Empty tag **b. Container tag** c. <HR> d. <Head>

4. .... is used to apply a unique style for a single element.
a. **Inline style sheet** b. Internal style sheet c. External style sheet d. None of these

C. Complete the sentences using the words given in the box.

1. HTML is a markup language used for creating **Web pages**.

2. Starting a tag before closing the previous tag is called **Nesting** of tags.

3. **Block** tags take up the entire width available.

4. **Empty** tags contain only the opening tag.

5. A property that provides some additional information about a tag is called a/an **Attribute.**

D. Answer the following questions.

1. Define HTML.

Ans. HTML stands for Hypertext Markup Language which describes the structures of the web page.

It allows us to create web pages that contain paragraphs, headings, links and block quotes.

2. What are container tags?

Ans. The tags that have both opening and closing tags are called container tags.

3. How many types of HTML editors are there? Describe them.

Ans. There are mainly two types of HTML editors named:

(a) WYSIWYG editor (b) Text editor (a) WYSIWYG editor– WYSIWYG stands for
''what you see is what you get''. This type of editor allows the developer to see what the end result
will look like when the document is created.(b) Text Editor– You can create HTML documents
using normal text editors like Notepad or WordPad. The user should have a proper
knowledge of the HTML commands to develop a web page.

4. What are the rules required for writing HTML tags?
Ans. Rules required for writing HTML tags: – Container tags should always be closed properly.
 – Values given to the attributes should be enclosed within the double quotes.
 – Tag name should not contain spaces. – There should be no spaces between <and> in a tag.
 – Tags must be nested correctly.

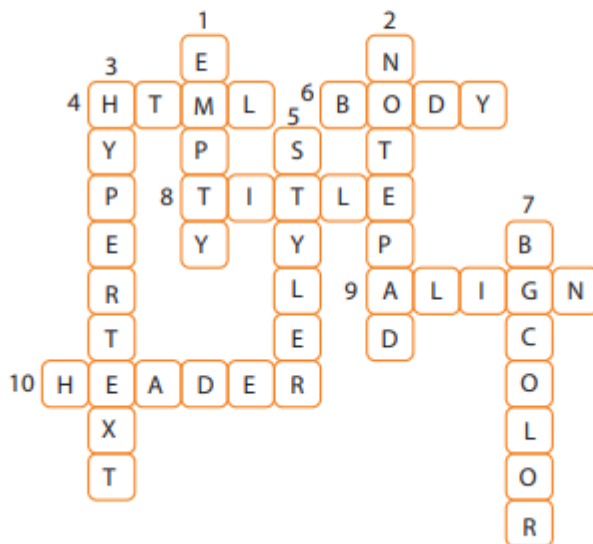**5. What is CSS? How are CSS styles used?**
Ans. CSS means Cascading Style Sheet. It is a design language which enables to simplify the process of
making web pages. It handles and describes how a HTML web page will be presented on a web browser.
There are three ways to use the CSS styles in HTML document which are:
 – Inline Style Sheet
 – Internal style Sheet
 – External Style Sheet

Brain *Developer*

Memory Zone

Solve the crossword using the given clues:

Down:

1. The tags which have only opening tag

2. Most commonly used Text Editor for web page designing

3. Pieces of ordinary text that has feature of linking to other documents

5. Attribute used to change color of the text in a web page

7. Attribute used to change background color of a web page

Across:

4. Markup language used to create web pages

6. Tag used to define the text to be shown on the web page

8. Tag used to define what is to be shown on title bar when the web page is opened in web browser.

9. Attribute used to align heading or text in a paragraph

10. Tag used to define header area of the web page