

LESSON PLAN (2022-23)

Class VIII

Subject -: Computer

Topic: Networking Concepts

Month: April 2023

Previous Knowledge: Teacher will ask the following questions to students:

- 1)What are the uses of Internet?
- 2)What id Network.
- 3)Full Form of LAN,WAN,MAN

Vocabulary used: Storage media, Video Conferencing, Wireless Networking, Ethernet, Network Security

Aids/Methods: Computer, projector, green board, smart board

Procedure: first

- 1) Teacher will discuss uses of Networking.
- 2) then teacher will explain the concepts like i) Network Security ii) Storage media iii) Wireless Networking

Then draw various diagrams of Computer Network on board and explain the each concept in detail.

Recapitulation: To revise the chapter teacher will ask few questions from chapter that are already discussed in class like:

- 1)What is Networking ?
- 2)What are advantages of networking?
- 3)What is Network Security ?

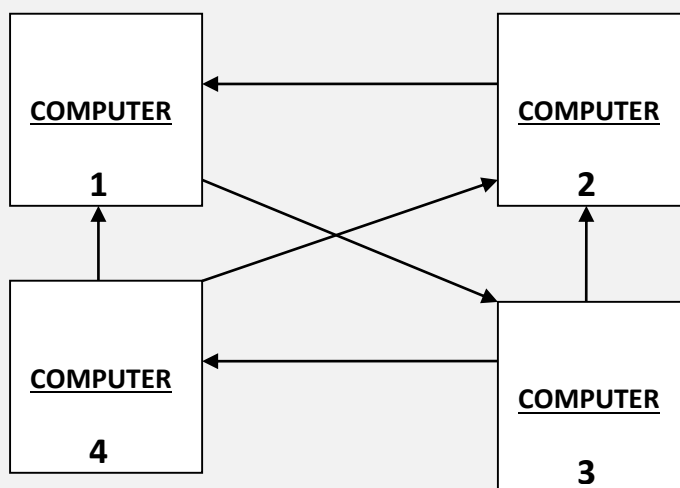
ASSIGNMENT:

Teacher will say the students to do back exercises of chapter and also give few questions to learn like:

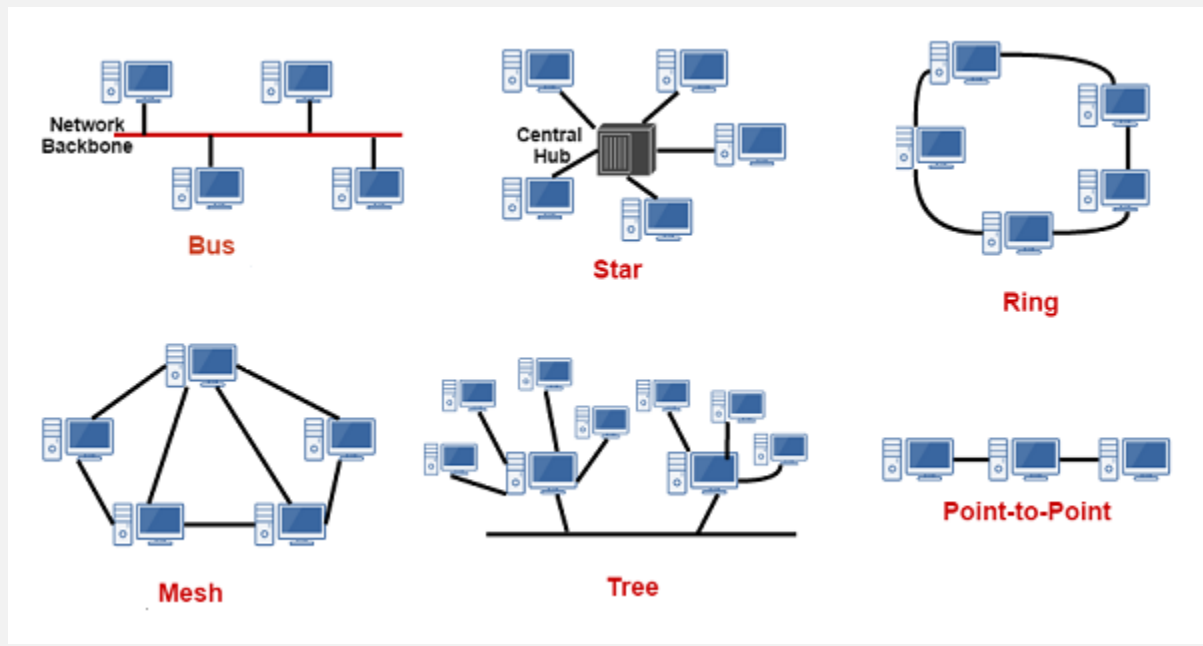
Participation of students: Teacher will ask each student turn wise or roll no wise

ACTIVITY :1

3)Explain the given diagram:



ACTIVITY :2

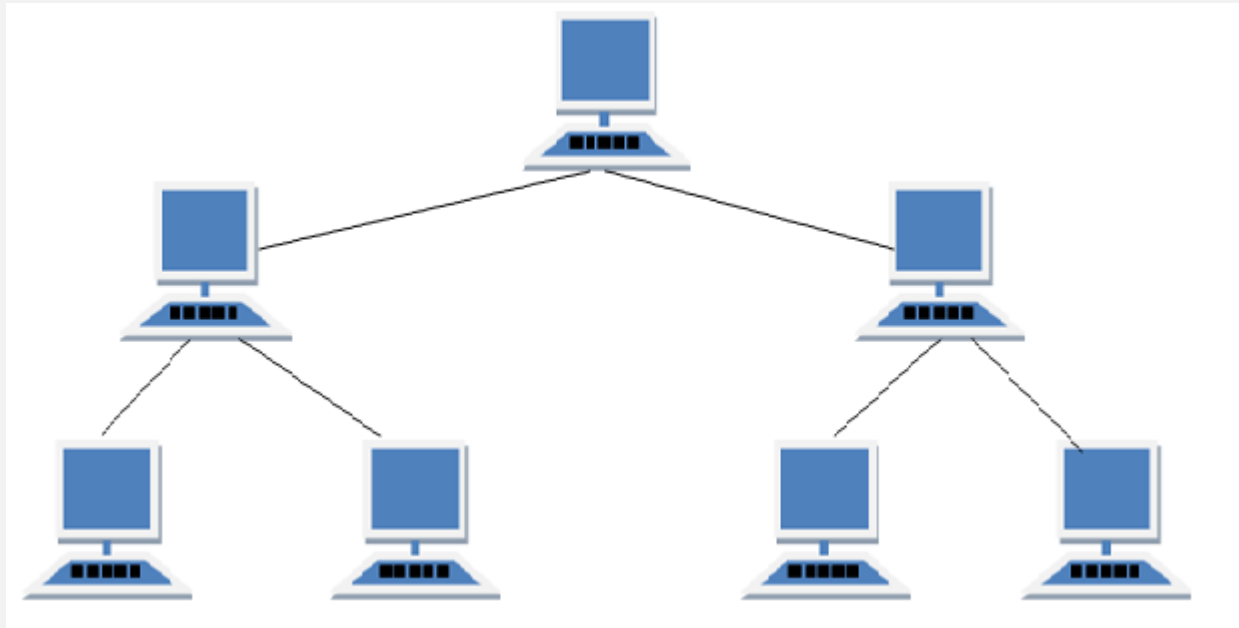


LAB ACTIVITY:

Activity 1: Create an informative presentation using MS Powerpoint2010, on topic:

“Advantages of Networking” Apply the formatting and animation effects to make it impressive.

Activity 2: Create this topology in Ms-Word using various shapes and symbols



Topic: Access – Creating a Database

Month: MAY 2023

Lesson Objectives

At the end of the class, the student will:

What is database?

What is its use?

Importance of database?

Previous Knowledge: Teacher will ask the following questions to students:

- 1) What are data types?

2) How to inset the record in table ?

Vocabulary used: Integrity ,Security, Backup ,Sorting,
Data Retrieving

Aids/Methods: Computer, projector, green board, smart
board

Procedure: first teacher will discuss the basic concepts of
Database like

1) What do understand by storage?

2)How the records are save in MS-Excel?

Then teacher will discuss the more concepts of Database

like:-1) What is rule ?

2)What is File?

Recapitulation: To revise the chapter teacher will ask few
questions from chapter that are already discussed in class
like:

1)What is File?

2)What is Flat File?

3)What is table in Ms Access?

ASSIGNMENT:

Teacher will say the students to do back exercises of chapter and also give few questions to solve like:

- 1) What is Database?
- 2) Write ant two advantages of Database?
- 3) What is Concept of Primary Key?

Participation of students: Teacher will ensure the active participation of students. For this teacher will give few activities to students like:

ACTIVITY :1 Write few differences between Flat File and Relational database?

ACTIVITY :2 Write uses of Database.

LAB ACTIVITY

Activity 1:

Ankit is working for an organization that has the following 'Employee Database'. Answer the following questions based on it:

Name	Salary	Bonus	Age
Karan	4000	500	24
Sonali	6700	700	22
Prachi	8000	1000	28
Vineet	7500	800	30

- What is the total number of records in the table?
- What is the total number of fields in the table?
- Can you select a primary key from this table? Give reasons.

Topic: Access Tables and Forms

Month: July 2023

Previous Knowledge: Teacher will ask the following questions to students :

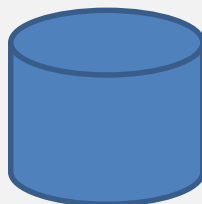
- 1)What is Table?
- 2)What is Form?

Vocabulary used: Data Redundancy, Blank Database, navigation pane , data types

Aids/Methods: Computer, projector, green board, smart board

Procedure: teacher will write few topics and draw diagrams on green board like

- 1) What is Interface?
- 2)What do you understand by templates?
- 3) Explain the given diagram:



Then teacher will ask few questions and students will give answers one by one.

Recapitulation: To revise the chapter teacher will ask few questions from chapter that are already discussed in class like:

- 1) Show the diagram on projector and ask questions like how to apply primary key?
- 2) Discuss various data types

ASSIGNMENT:

Teacher will say the students to do back exercises of chapter and also give few questions to solve like:

Activity1: Make a chart of various data types and also explain them

Participation of students: Teacher will ensure the active participation of students. For this teacher will give few activities to students like:

ACTIVITY :1 Make a table student on notebook take various attributes

ACTIVITY :2 Choose the Primary key.

ACTIVITY :3 Explain why that attribute is chosen as Primary and explain the properties of primary key .

LAB ACTIVITY

Activity 1: Perform the following activities on your computer:

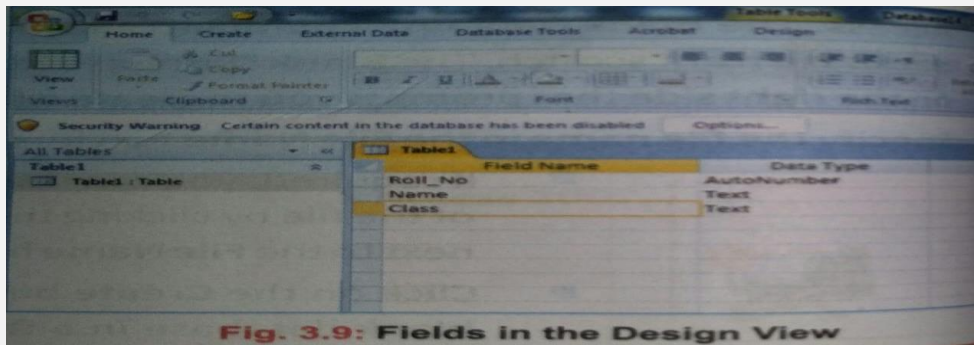
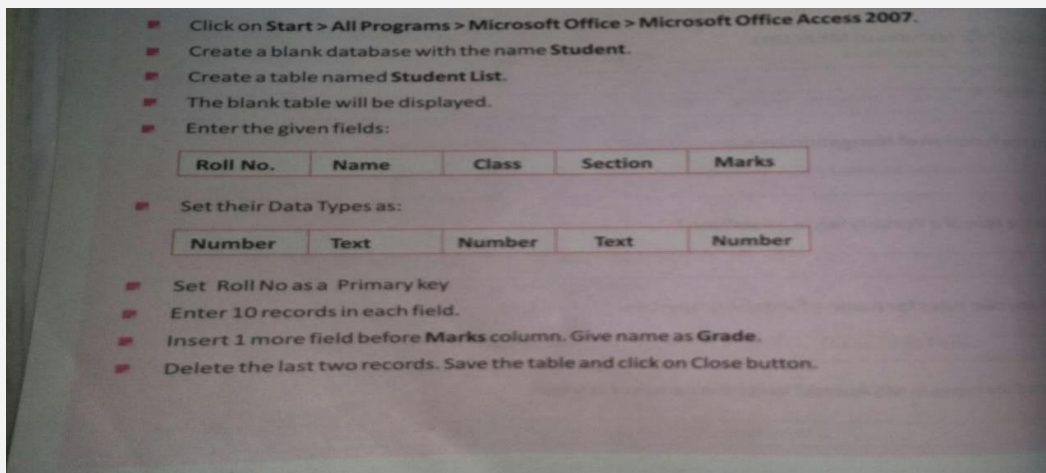


Fig. 3.9: Fields in the Design View

Activity 2:



TOPIC: Query and Report

MONTH-August 2023

Previous knowledge: - To check the knowledge teacher will ask basic questions regarding the topic like:-

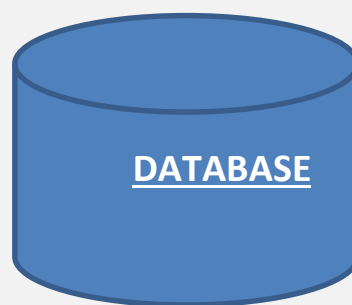
1. What is Report?
2. How to insert, update and delete the record in forms ?

Vocabulary used:-Data, Database, DBMS, Freeze, Field, and Look up Wizard

Important Spelling used:- Data, Database, DBMS, Freeze, Field, and Look up Wizard

Aids/Methods used to explain the topic :- Smart board, E-Book, Textbook, Chalkboard.

Procedure: - Topic wise chapter will be read aloud in class and teacher will explain the topic. Teacher will show diagrams on smart board to explain the topic. Important terms and required figure will be drawn on board like:



Participation of students:-Teacher will ensure the active participation of student by giving activity to student to perform in class.

ACTIVITY 1:-

First student will come. Teacher will ask to create table with four tuples and 3 Attributes.

ACTIVITY 2:-

Second student will come. Teacher will ask to apply the PRIMARY Key.

Recapitulation:- TO revise the concept teacher will ask few question like:

1. What is ENTITY?
2. What is TUPLE?
3. What is PRIMARY KEY?
4. Write two features of PRIMARY KEY?

LAB ACTIVITY

Students will perform the following activity in lab:

■ Create a table with the given fields. Save the database with the name 'Teacher's Detail'.

Reg_No	Name	Subject	School	Address	Mobile_No
--------	------	---------	--------	---------	-----------

■ Create a table and enter 10 records in it.

■ Make changes in a table. Rename the field name Mobile_No. to Contact No.

■ Set Reg_No. as the Primary key.

■ Insert a new field 'Date of Joining' at the end.

■ Move the field 'Subject' after the 'School' field.

■ Hide the field 'Address' and 'Contact No.'.

■ Now freeze the column 'Name'.

■ Edit records from the rows 4 to 7 by replacing their information with the new values.

■ Delete the first two records.

■ Save the table and exit MS Access.

TOPIC :- Queries Report

MONTH-September 2023

Previous knowledge:-Teacher will ask few questions to students regarding the topic like:

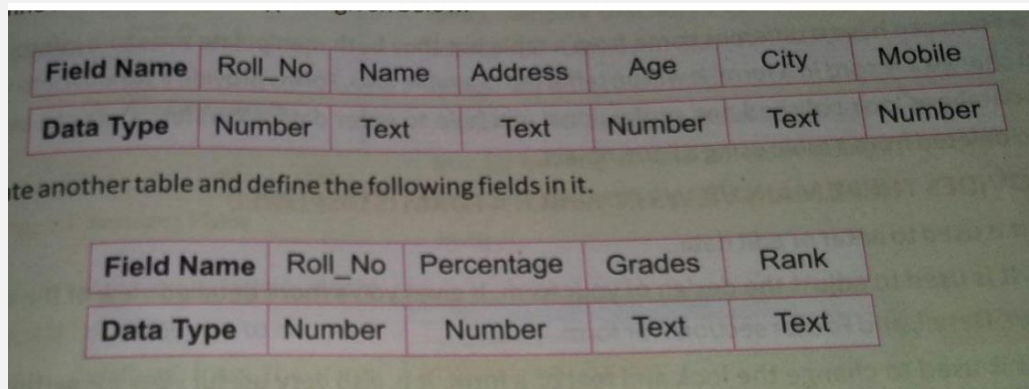
1. What is use of searching?
2. What is the concept of Filtering?

Vocabulary used:-Select, Parameter, Cross tab, Action Query, SQL query

Important Spelling used:- Select, Parameter, Cross tab, Action Query, SQL query

Aids / Methods used to explain the topic:-Text Book, E-book, Chalk box, Smart board.

Procedure:-Topic will be read by students turn wise in the class important terms will be written on board by teacher like:



te another table and define the following fields in it.

Field Name	Roll_No	Name	Address	Age	City	Mobile
Data Type	Number	Text	Text	Number	Text	Number

Field Name	Roll_No	Percentage	Grades	Rank
Data Type	Number	Number	Text	Text

Also explain the various concepts that is shown in the above picture while showing this picture on the smart board

Recapitulation:-to revise the chapter teacher will ask few concepts from students which are already discussed in class like:-

- 1.What is Query?
- 2.What is Sorting?
- 3.What is Filtering?

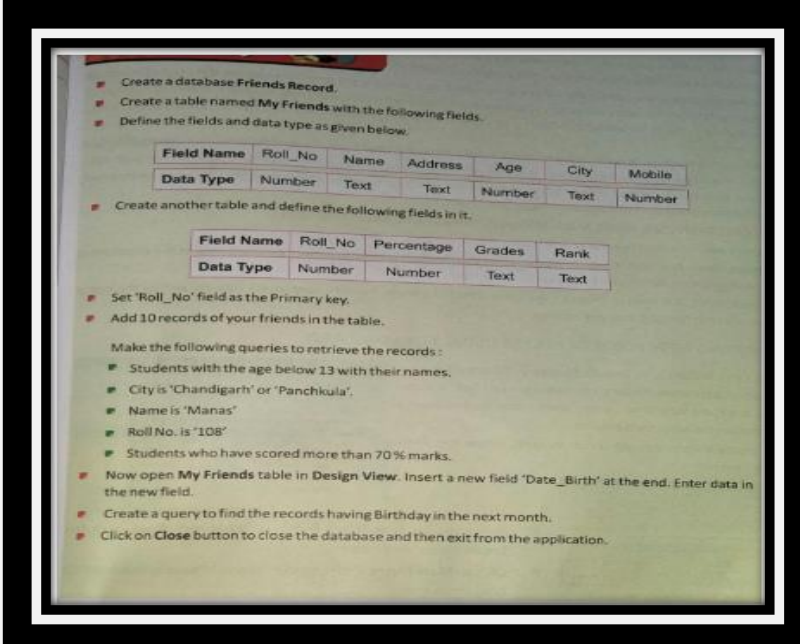
ASSIGNMENT:

Teacher will ask students to solve back exercise .Students will solve themselves and there will discussion in class

LAB ACTIVITY

ACTIVITY 1:-

Students will do the following activity in class:



■ Create a database Friends Record.

■ Create a table named **My Friends** with the following fields.

■ Define the fields and data type as given below.

Field Name	Roll_No	Name	Address	Age	City	Mobile
Data Type	Number	Text	Text	Number	Text	Number

■ Create another table and define the following fields in it.

Field Name	Roll_No	Percentage	Grades	Rank
Data Type	Number	Number	Text	Text

■ Set 'Roll_No' field as the Primary key.

■ Add 10 records of your friends in the table.

Make the following queries to retrieve the records :

- Students with the age below 13 with their names.
- City is 'Chandigarh' or 'Panchkula'.
- Name is 'Manas'
- Roll No. is '108'
- Students who have scored more than 70% marks.

■ Now open **My Friends** table in **Design View**. Insert a new field "Date_Birth" at the end. Enter data in the new field.

■ Create a query to find the records having Birthday in the next month.

■ Click on **Close** button to close the database and then exit from the application.

Topic: Report

LEARNING OBJECTIVES

In this chapter students will learn:

1)How to create report from the given data using various methods in Ms Access.

PREVIOUS KNOWLEDGE TESTING

- 1.What is Summary?
- 2.What is Report?
- 3.What is header?

VOCABULARY USED

Report header, Report footer, Detail, Wizard

IMPORTANT SPELLINGS USED

Report header, Report footer, Detail, Wizard

AIDS/ INNOVATIVE METHODS

Smart Board, E-book, Blackboard, chalk

PROCEDURE

Teacher will explain various concepts like:

- 1) What is concept of Reports in Ms Access?

2) How many ways to create Report in Ms Access?

3) Steps to create the Reports.

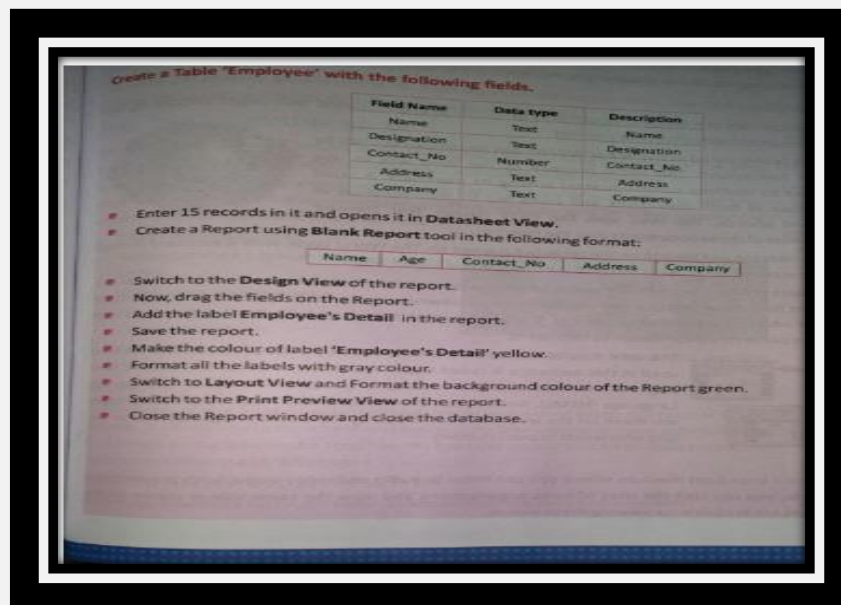
RECAPITULATION

The chapter will be reviewed and a set of questions will be asked from the students to check their knowledge.

1) What is do understand by Reports?

2) Is there any difference between Reports and Summarisation of data?

Lab Activity: Students will perform the following activity in lab:



Create a Table "Employee" with the following fields.

Field Name	Data type	Description
Name	Text	Name
Designation	Text	Designation
Contact_No	Number	Contact_No
Address	Text	Address
Company	Text	Company

- Enter 15 records in it and opens it in Datasheet View.
- Create a Report using Blank Report tool in the following format:

Name	Age	Contact_No	Address	Company
------	-----	------------	---------	---------
- Switch to the Design View of the report.
- Now, drag the fields on the Report.
- Add the label Employee's Detail in the report.
- Save the report.
- Make the colour of label 'Employee's Detail' yellow.
- Format all the labels with gray colour.
- Switch to Layout View and Format the background colour of the Report green.
- Switch to the Print Preview View of the report.
- Close the Report window and close the database.

Topic -: HTML 5 – Forms and Multimedia

MONTH-October 2023

Teaching Objectives

Students will learn about:

+ Creating Tables

☞ Creating Lists

Previous Knowledge

What is Webpage?

HTML stands?

Which language is used to make webpages?

While teaching this chapter, tell the students that HTML tags are used to create a web page.

Vocabulary

- HTML
- HTML standards
- tags
- opening tag
- closing tag
- syntax
- elements
- code/source code

- wickets/brackets

Important Spellings

BORDER, BORDERCOLOR, FRAMES, BGCOLOR, BACKGROUND, HEIGHT, WIDTH, CELLSPACING and CELLPADDING.

Resources

The Basics of HTML,

<https://www.tjhsst.edu/~dhyatt/superap/basic.html>

HTML Coding, **<https://www.uwec.edu/help/html.htm>**

HTML Tutorial, **<https://www.w3schools.com/html/>**
(includes hands-on resources to build websites)

Image Credit: **[Wikimedia Commons/Azoth](#)**

Aids/Methods

- zoom app
- white board
- HTML reference book
- Computers for students to use

- Computer and computer projector (InFocus) to show websites and related materials to students
- Three to four reference websites that provide educational content and use effective HTML; (There are many educational websites produced by universities and governments that can be used for this purpose.)
- Assessment materials for students to complete (noted below)

Procedure

- 1) Teacher will discuss the use of <TABLE> tag and its child tags covering <TR>, <TD>, <TH> and <Caption>.**
- 2) Tell the students that there are three types of lists – Ordered List (Numbered List), Unordered List (Bulleted List) and Definition List (Description List) and use of ordered list and unordered list.**
- 3) Teacher will discuss the following code with students and also show the output using projector:**

```
1 <html>
2 <table border='1'>
3 <tr>
4 <th>From</th>
5 <th>To</th>
6 <th>Date</th>
7 <th>Price</th>
8 </tr>
9 <tr>
10 <td>Chicago</td>
11 <td>New York</td>
12 <td>Tuesday 1/8</td>
13 <td>$53</td>
14 </tr>
15 <tr>
16 <td>Chicago</td>
17 <td>Denver</td>
18 <td>Saturday 2/9</td>
19 <td>$60</td>
20 </tr>
21 </table>
22 </html>
```

Output:

From	To	Date	Price
Chicago	New York	Tuesday 1/8	\$53
Chicago	Denver	Saturday 2/9	\$60

Student Participation

Teacher will ask student to write the HTML code to display the following table

Teacher will ensure the participation of each student.

Recapitulation/Assignment

To revise the chapter teacher will ask few questions from chapter that are already discussed in class like:

- 1) What is use of Lists in html?
- 2) When we use Ordered Lists and Unordered Lists?
- 3) Which tags are used for row and columns?

Assignment

ACTIVITY :1

Write the names of any four attributes of the <TABLE> tag in HTML.

1. _____
2. _____
3. _____
4. _____

ACTIVITY :2

<HTML>
Kids Programming Worksheet

Name: _____
Date: _____

SYNTAX CROSSWORD

1 2
3 4
5
6
7 8
9

ACROSS

- 2 Defines a Paragraph
- 3 Defines Division
- 5 Defines Order List
- 6 Defines a list item
- 7 Defines a Table
- 9 Defines information about the documents and header part of the page.

DOWN

- 1 Defines a Title of the page
- 4 Defines Unordered List
- 8 Defines a document body
- 9 Defines the HTML Headings

Art Integration

Ask the students to create:

- List of favourite games of 10 friends.
- Table of car names and their models

Learning outcomes

After explaining the chapter, let the students do the exercises given on Page 74 and 75 in the main course book as Test Your Skills. Tell the students to try sections under Fun Zone– Let's Solve, Let's Explore and Let's Get Better given on Page 76 in the main course book.

Co-scholastic activities / Lab activity

Activity 1: Take the students to the computer lab and let them practice the activity given in the Tech Practice section on Page 76 in the main course book. This will enhance the ability of the students and serve as a Subject Enrichment activity.

Activity 2: Create this topology in Ms-Word using various shapes and symbols

Create this table in HTML.

Roll No.	Name of Student	Marks in			Total
		English	Maths	Science	
1	Suman	84	96	81	271
2	Aryan	68	94	89	251
3	Naveen	71	83	73	227
4	Vinod	55	65	86	206
5	Sonia	61	92	75	228

Assessment

Ask the students some oral questions based on this chapter.

Q. Define List / Table.

Q. How many types of Lists can be created in HTML?

Q. Name the different types of Lists that can be created in HTML.

Q. What is an Ordered / Unordered / Definition List?

Q. Name the attributes of tag.

Q. Name the tags used to create Definition List.

Q. Name the tags that can be used to create different kinds of tables.

Q. What are the attributes of table tag?

Topic -: App Development

MONTH-November 2023

Teaching Objectives

Students will learn about:



What is an App?



Categories of Apps



Defining the Android and iOS



Downloading and Installing the App



Types of Mobile Apps + Developing an App

Previous Knowledge

1)What are the various apps they are using in their mobile phones?

3)What is use of apps?

Vocabulary

- Google Play store
- Apple app store
- Microsoft app store

Important Spellings

- Hybrid app
- Web apps
- Native app
- Android

- iOS

Resources

<https://edu.gcfglobal.org/en/googledocuments/>

<https://developers.google.com/apps-script/articles>

Aids/Methods

- zoom app
- white board
- HTML reference book
- Computers for students to use
- Computer and computer projector (InFocus) to show websites and related materials to students
- Three to four reference websites that provide educational content and use effective google apps; (There are many educational websites produced by universities and governments that can be used for this purpose.)
- Assessment materials for students to complete (noted below)

Procedure

Teacher will discuss about firstly make the students understand about iOS and android operating system.

Then discuss about its apps with help of examples.

Then discuss about hybrid apps , native apps and web apps

Student Participation

Activity 1:

Write the four names of Native Apps 1. _____

2. _____

3. _____

4. _____

Activity 2:

Write the four names of Hybrid Apps 1. _____

2. _____

3. _____

4. _____

Write the four names of Web Apps

1. _____

2. _____

3. _____

4. _____

Recapitulation/Assignment

To revise the chapter teacher will ask few questions from chapter that are already discussed in class like:

1) Define Google apps

2) What are native apps? 3) What are hybrid apps?

4) What are web apps?

Assignment

ACTIVITY :1

Differentiate between desktop and web apps.

Art Integration

Download the educational app Vedantu in your phone from play store and also explore its various features.

Learning outcomes

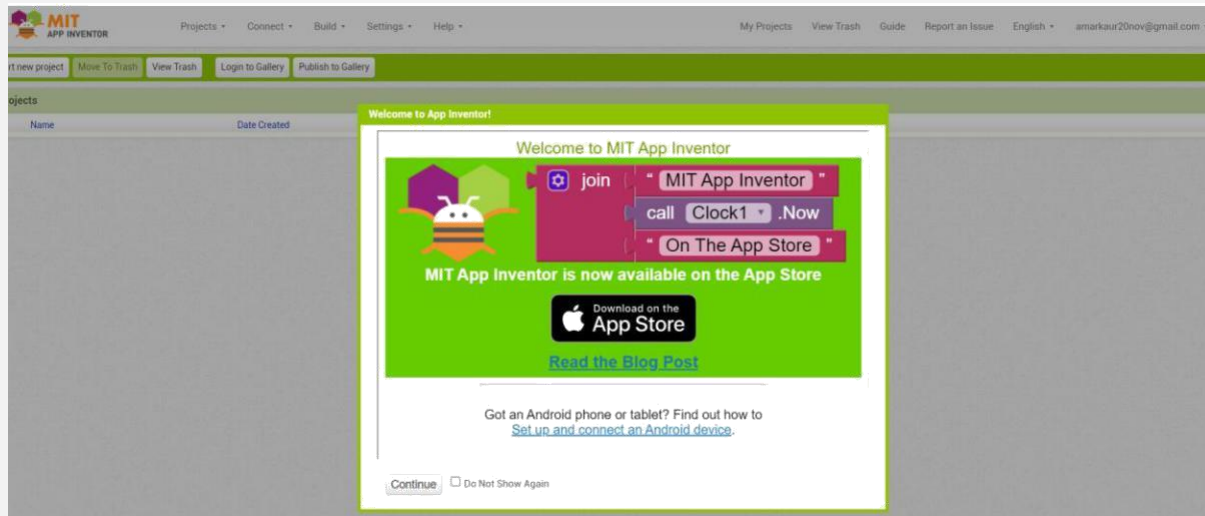
After explaining the chapter, let the students do the exercises given on Page 147 and 148 in the main course book as Test Your Skills. Tell the students to try sections under Fun Zone– Let's Solve, Let's Explore and Let's Get Better given on

Page 148 and 149 in the main course book Page 135 and 136 in the main course book

Co-scholastic activities / Lab activity

Activity 1: Take the students to the computer lab and let them practice by open the

<https://appinventor.mit.edu/link>



Assessment

Ask the students some oral questions based on this chapter.

Q. Q. What is an App ?

Q. Define the following:

- Gaming Apps • Productivity Apps • Entertainment Apps
- Utility Apps • Educational Apps • Social Networking Apps • Communication Apps • E-Commerce App

Topic -: Python-Looping and Tkinter

MONTH-December 2023

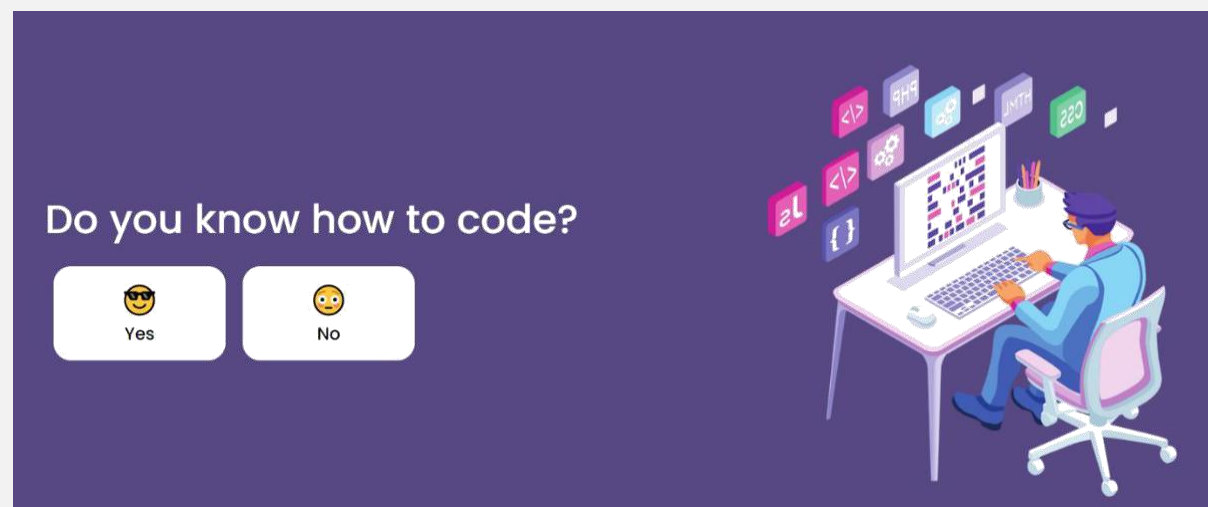
Teaching Objectives

Students will learn about:

- ✚ **The FOR Statement**
- ✚ **Jump Statements**
- ✚ **The WHILE Statement**
- ✚ **Functions**

Previous Knowledge

Teacher will ask to student:



1) What is Coding?

2) What is the use of Coding?

3) What are functions?

4) What is programming language?

5) Name some programming languages?

Vocabulary

- For statement
- variable
- iterator
- While statement
- Range function
- Jump statement
- Break statement

Important Spellings

- Variable
- iterator
- print
- function
- parameters

Resources

<https://docs.python.org/3/tutorial/>

<https://www.w3schools.com/python/>

Aids/Methods

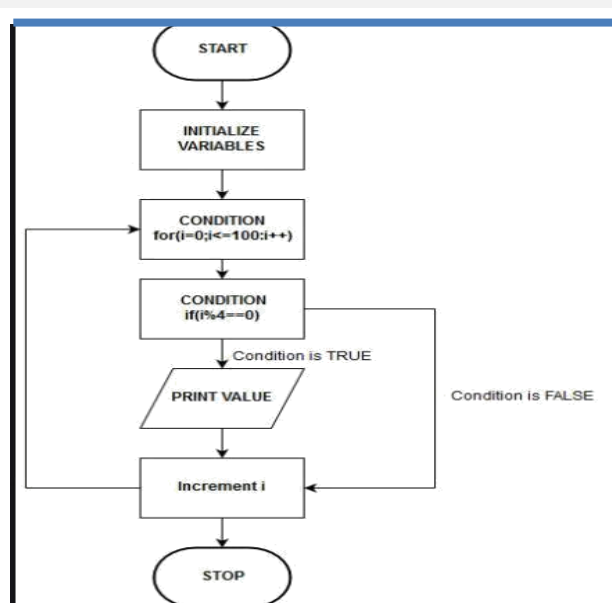
- zoom app
- white board
- HTML reference book
- Computers for students to use
- Computer and computer projector (InFocus) to show websites and related materials to students
- Three to four reference websites that provide educational content and use effective python; (There are many educational websites produced by universities and governments that can be used for this purpose.)
- Assessment materials for students to complete (noted below)

Procedure

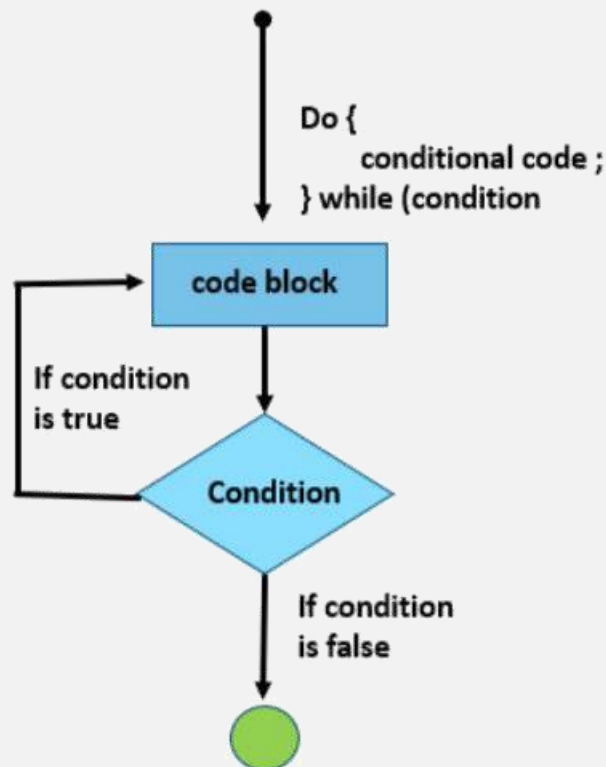
Teacher will discuss the



Flowchart for for loop



**Teacher will discuss the
Flowchart for while loop**



Student Participation

Activity1:

**Teacher will ask student to write a code to print
Your Name in your notebooks.**

Activity 2:

Write a code to print 1 to 100.

Teacher will ensure the participation of each student

Recapitulation/Assignment

To revise the chapter teacher will ask few questions from chapter that are already discussed in class like:

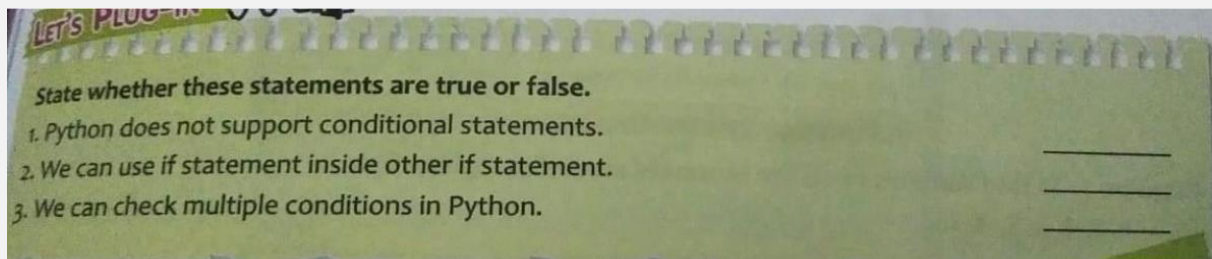
- 1)What is the syntax for 'While Loop'?
- 2)What is the syntax for 'FOR' loop?
- 3)What is the syntax Go TO statement?

Assignment

ACTIVITY :1

Write the code for 2's table

ACTIVITY



Art Integration

Find out the companies using python.

Learning outcomes

After explaining the chapter, let the students do the exercises given on Page 105 and 106 in the main course book as Test Your Skills. Tell the students to try sections under Fun Zone- Let's Solve and Let's Explore given on Page 106 and 107 in the main course book.

Co-scholastic activities / Lab activity

Activity 1: Take the students to the computer lab and let them practice by making programs:

Ask the students to make a list of series where you can apply the FOR and JUMP statements.

Assessment

Ask the students some oral questions based on this chapter.

Q. What are looping statement?

Q. What is the function of FOR statement?

Q. What is the function of WHILE statement?

Q. What is the function of JUMP statement?

Q. What is a FUNCTION?