

Cross word Puzzle
DEPARTMENT OF INFORMATION TECHNOLOGY::VRSEC
REPORT ON A CTIVE LEARNING METHOD
20IT3308– OBJECT ORIENTED PROGRAMMING
A.Y.2023-24

Name of the Topics: Cross Word Puzzle.

Target Audience: Students of II/IV B.Tech III rd Semester Sec A

Date of activityconducted: 11-12- 2023

No.ofstudentsparticipated:69

Name of the Faculty: T.Lakshmi Surekha ,Assistant Professor

Objective oftheactivity:

- Understand the concepts of Object Oriented Programming.
- To prepare the students for short answer questions.
- To make the students attain good marks in exam.
- To make the students think logically

Creating a crossword puzzle as an active learning methodology can be an engaging way for students to learn and reinforce concepts in C++. Here's a step-by-step guide to implement a crossword activity focused on C++:

Step 1: Preparation

1. Identify Key Concepts

- Select important terms and concepts in C++ that you want students to learn or review, such as classes, objects, inheritance, polymorphism, encapsulation, functions, pointers, and arrays.

2. Create Clues

- Develop clues for each selected term. Ensure that the clues are clear and concise. They can be definitions, descriptions, or usage examples.

3.Design the Crossword

- Use a crossword puzzle maker tool (online or software) to create the puzzle. Enter your terms and clues into the tool to generate the puzzle grid and corresponding clues list.

Step 2: Implementation

1. Distribute the Puzzle:

- Provide each student with a copy of the crossword puzzle and the list of clues.

2. Individual Work

- Allow students 10minutes to work on the crossword individually. This helps them recall and apply their knowledge independently.

Step3:

Collect the puzzles and evaluate.

Step 4: Pair Work

1. ****Form Pairs****:

- Pair up students to discuss their answers and collaborate on any remaining blank spaces.

2. ****Discussion****:

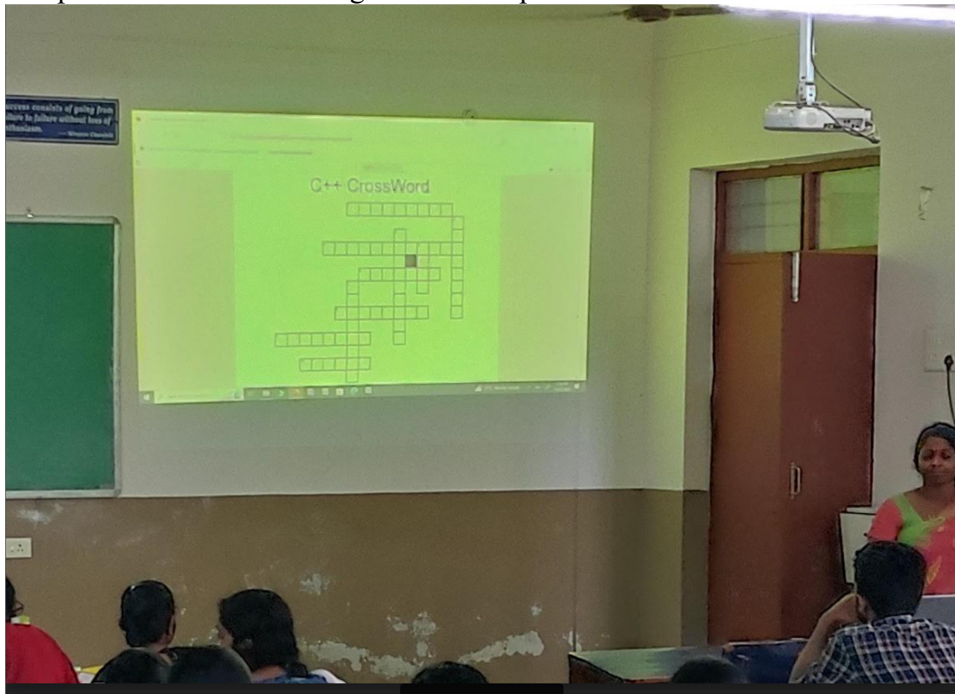
- Encourage pairs to explain their reasoning behind each answer, reinforcing their understanding of the concepts.

Step 4: Class Discussion

Benefits of Crossword Puzzles in Learning C++

- ****Engagement****: Crossword puzzles make learning fun and interactive, increasing student engagement.
- ****Reinforcement****: Helps reinforce key concepts and terms in an enjoyable manner.
- ****Collaboration****: Encourages collaboration and discussion among students, enhancing their understanding.
- ****Assessment****: Allows for quick assessment of students' grasp of the material.

Using a crossword puzzle in this way can be a highly effective active learning strategy for teaching C++. It combines individual work, pair collaboration, and class discussion to ensure comprehensive understanding of the concepts.



Execution Plan:

- List of questions are prepared for implementing crossword puzzle.
- Print copy is prepared with square or rectangular grid with white and black squares
- . • Dissemination of hard copies to students - 5 mts
- . • Puzzle Problem solving : 10 mts

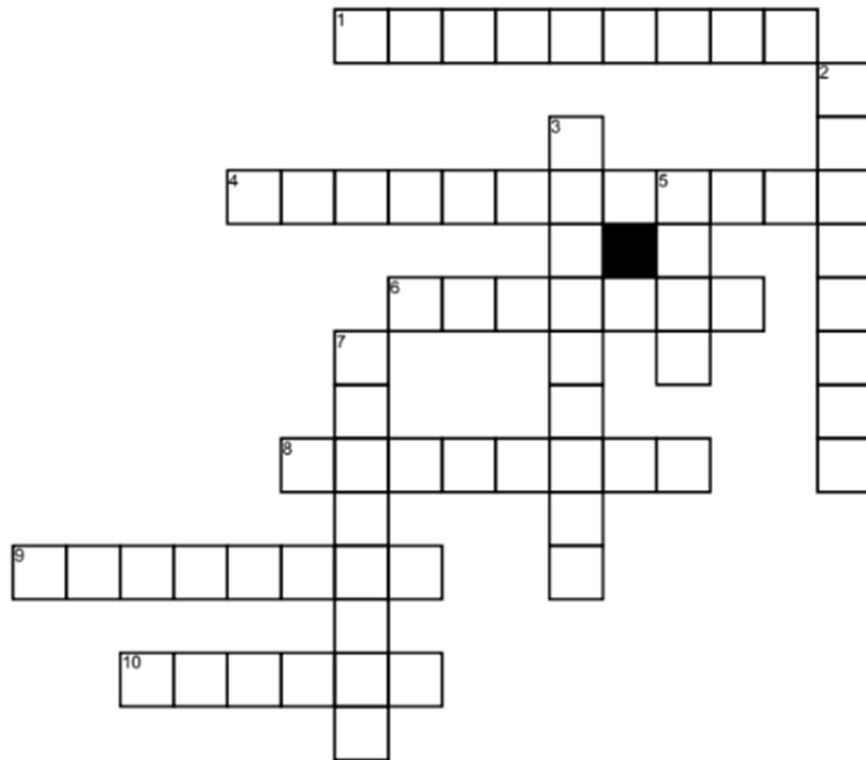
- Collecting the filled copies and Course coordinator summary : 5 mts

Expected Outcomes:

The students can be able to

- Understand the concepts and terminology of object-oriented Programming
- Apply the concepts and definitions learned during semester end examination.
- Improvement in academic performance.

C++ CrossWord



Across

1. Acts as an alias to another variable.
4. The capability of the function to resolve to the most derived version of the function with same signature.
6. The keyword used to resolve the conflicts caused by multiple inheritance in c++.
8. one of the storage classes in c++.
9. A Function that has no body at all.
10. Dynamic array in Standard Template Library.

Down

2. Function that serves as a template for creating similar other functions.
3. keyword used to provide special access to inherited members.
5. Keeps track of memory used for dynamic memory allocation.
7. float f=3; Declaration of this type causes the compiler to perform this operation before storing value into the variable.