RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University
Accredited by NAAC & An ISO 9001:2015 Certified Institution
NBA Accredited UG Programs: CSE, EEE, ECE and MECH

Department of Computer Science and Engineering.
Academic Year: 2024 - 2025(Odd/ Semester)

Degree, Semester & Branch: B.E, III & EEE
Course Code & Title: CS3353 & C Programming and Data Structure
Name of the Faculty member (s): Mrs.M.Dhivya, AP/CSE
Innovative Practice Description

- **Unit / Topic: Unit I/ C Programming Fundamentals**
- **Course Outcome:** CO 1
- **Topic Learning Outcome:** TLO 2
- **Activity Chosen:** Cross word puzzle
- **Justification:**

  To identify the understanding level of a student about functions, a game based activity was chosen to do the revision of topic instead of carrying out regular quiz tests.

- **Time Allotted for the Activity: 10 Minutes**

- **Details of the Implementation:**
  - A crossword puzzle is a fun word game that encourages students to remember the idea and try to figure out the solution on their own. It encourages students' curiosity instead of giving them the typical MCQ exams.
  - The activity was conducted in a classroom for a duration of 10 minutes. The students were given 10 questions as a crossword puzzle in the topic of Funtions. They have to think and write the answers in the given puzzle.
  - The activity was conducted during the last 20 minutes of the class after that the answers were corrected. Sample crossword puzzles question were shown in figure 1.
  - Student solved the crossword puzzles were shown in figure 2.
  - At the end of class, the correct answers to the questions were discussed to ensure that everyone understood the correct responses to all the questions.

- **CO – PO / PSO mapping:**

CO	PO1	PO2	PO3	PO9	PO10	PO12	PSO3
	3	2	1	1	2	1	2

(1 – Low 2 – Moderate 3 – High)

- **PO / PSO mapped:**

Innovative practice	PO1	PO2	PO3	PO10	PSO3
	3	2	1	2	2
Justification for correlation	The basic knowledge of engineering fundamentals is necessary to develop C programs using functions.	Basic C programming function concepts are used in analysis of complex engineering problems	Basic C programming function concepts are used in designing solutions for complex engineering problems.	Students will be able to execute and present programs using basic C Concepts	Students will be able to develop the software for automation system using function concept.

- **Images / Screenshot of the practice:**

Functions
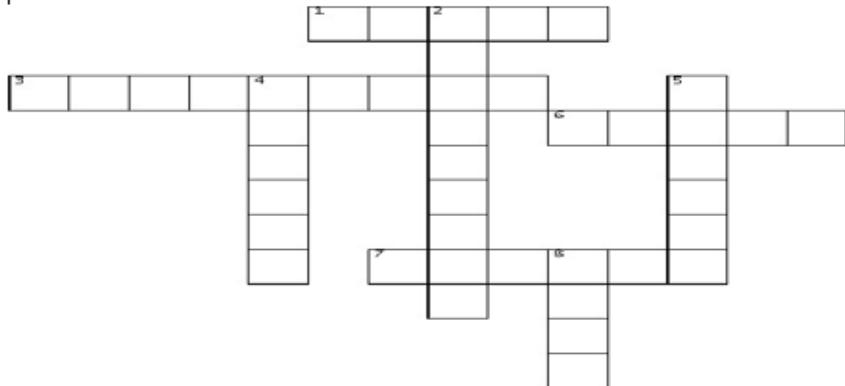
Left to Right

1. Function is a set of statements enclosed with _____ Brackets.
3. Function argument passed by address is called by_____
6. Variables that are declared within body of the function is called?
7. Arguments received by a function in C language are called_____ ?

Top to Bottom

2. Function which call itself is called_____
4. Keyword used to transfer control from a function back to the calling function is called_____
5. Argument passed to a function in C language are called_____ ?
8. Every C program Should Contain_____ Function?

Fig 1: **Cross word puzzle with question**
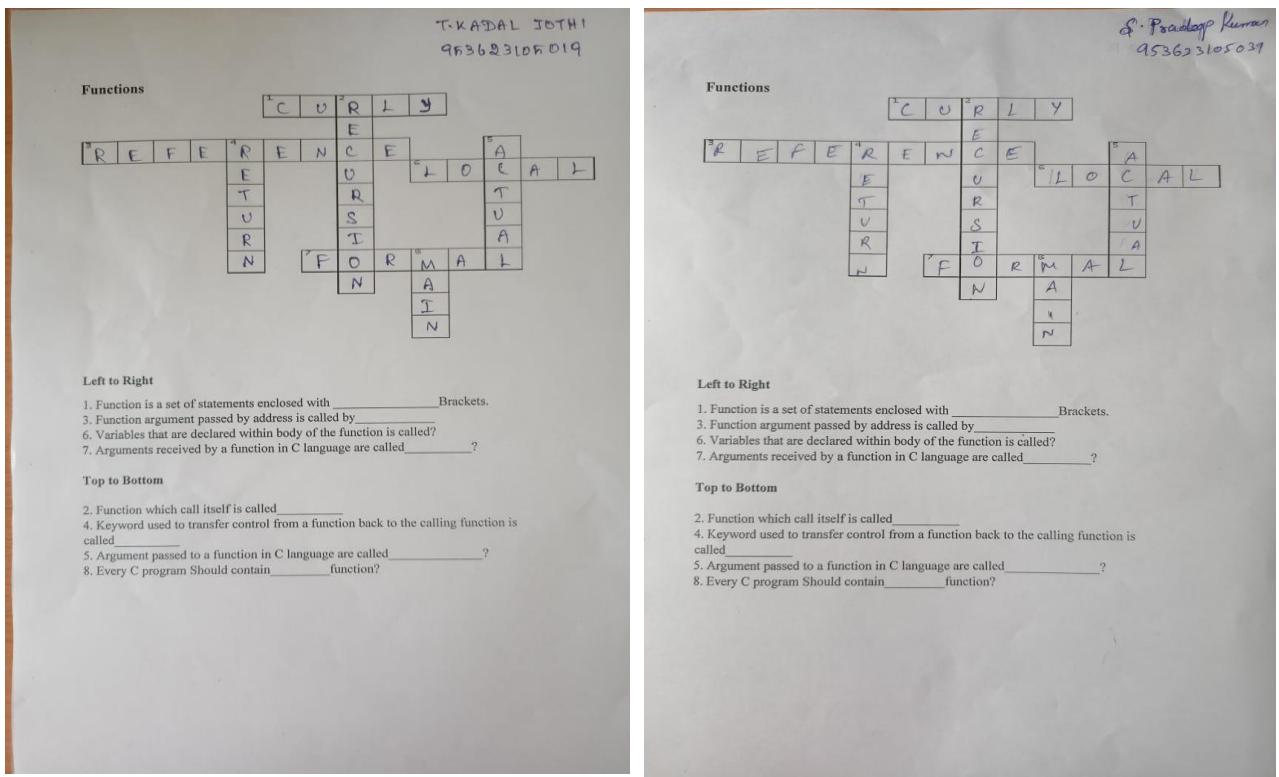
Fig 2: Sample answers of students

Reflective Critique:
- ❖ **Feedback of practice from students and other stakeholders:**
  - ○ The crossword puzzle activity was very interesting and able to identify the appropriate name of the function.
  - ○ It will be helpful while preparing for examination.
- ❖ **Benefit of the practice:**
  - ○ Vocabulary of the terms related to functions is improved
  - ○ This activity helps to test the level of understanding of the students
- ❖ **Challenges faced in implementation:**
  - ○ Few students found it difficult to complete the puzzle
  - ○ Students just might not have the necessary knowledge to complete crossword puzzles
- ❖ **References:**
  - ○ https://www.ritrjpm.ac.in/images/computer-science/Crosswords-MCAP-GM.pdf
  - ○ http://www.classtools.net/crossword/
  - ○ https://www.activityvillage.co.uk/crosswords

Form No. AC 10c   Rev.No.01   Effective Date: 02.08.2021