Assignment Number 2
Course: CAP222J: COMPUTER APPLICATIONS (PROGRAMMING FUNDAMENTALS THROUGH C) –
Nature of Assignment: Presentation Assignment

Instructions:

Each student will be assigned a topic from the syllabus below. You will prepare a 5-minute presentation on your assigned topic to deliver to the class.

Marks will be awarded for
- i) content,
- ii) clarity,
- iii) organization,
- iv) body language, and
- v) communication skills.

Marks: This assignment is worth 15 marks.

Topic Assignments:

Roll Number	Topic	Date of Presentation
23055	Early Programming Languages and their Impact	11-05-2024
23056	Understanding Syntax and Semantics in Programming	11-05-2024
23057	Essential Data Types in C Programming	11-05-2024
23058	Operators in C: Arithmetic, Logical, and Relational	11-05-2024
23059	Expressions and Operator Precedence in C	11-05-2024
23060	Controlling Flow with Conditional Statements (if, else, switch)	11-05-2024
23061	Looping in C: For, While, and Do-While Loops	11-05-2024
23062	Introduction to Functions in C: Defining and Calling	11-05-2024
23063	Understanding Pointers in C: A Basic Overview	11-05-2024
23064	Working with Arrays in C: Declaration and Accessing Elements	11-05-2024
23065	Introduction to Multidimensional Arrays in C	14-05-2024
23066	Basics of Strings in C: Declaration and Common Operations	14-05-2024
23067	Structures vs. Unions in C: Understanding the Differences	14-05-2024
23068	Type Conversion in C: Implicit vs. Explicit	14-05-2024
23069	Introduction to Algorithms and Problem-Solving Strategies	14-05-2024
23070	Flowchart Basics: Symbols and Simple Flowchart Construction	14-05-2024
23071	Anatomy of a C Program: Understanding the Basic Structure	14-05-2024
23072	From Code to Execution: Compiling and Running C Programs	14-05-2024
23073	Common Errors and Debugging Techniques in C Programming	14-05-2024
23074	Parameter Passing Methods: Call by Value vs. Call by Reference	14-05-2024
23075	Utilizing Command Line Arguments in C Programs	15-05-2024
23076	How Arrays are Stored in Memory	15-05-2024
23077	Pointer Arithmetic and Array Manipulation	15-05-2024
23078	Passing Arrays to Functions: Techniques and Considerations	15-05-2024

23079	Essential String Functions in C: strlen, strcat, strcmp, strcpy	15-05-2024
23080	Block Structure in Programming Languages: Enhancing Code Organization	15-05-2024
23081	Comparing C with Other Procedural Languages: Similarities and Differences	15-05-2024
23082	Introduction to Object-Based Programming: Core Concepts	15-05-2024
23083	Exploring Functional Programming: A Different Approach to Programming	15-05-2024
23084	Nested Loops: Handling Complex Iterations	15-05-2024
23085	Procedural Programming: A Step-by-Step Approach to Programming	16-05-2024
23086	Understanding Structured Data Types in C: Arrays and Structures	16-05-2024
23087	Controlling Program Flow: Sequence, Selection, and Iteration	16-05-2024
23088	Subprograms: Functions and Recursion in Programming	16-05-2024
23090	Common Algorithms: Sorting and Searching Techniques	16-05-2024
23091	Declaring and Initializing Pointers: Getting Started with Pointers	16-05-2024
23092	Problem-Solving with Flowcharts: A Visual Approach	16-05-2024
23093	Keywords and Identifiers: The Building Blocks of C Programs	16-05-2024
23094	Input and Output in C: Using printf and scanf	16-05-2024
23095	Operators in C: Performing Calculations and Comparisons	18-05-2024
23170	Logic Programming: A Declarative Paradigm for Problem Solving	18-05-2024
23171	Qualities of Effective Algorithms	18-05-2024
23172	Controlling Loop Execution: Break and Continue Statements	18-05-2024
23173	Using Pointers with Functions: Passing and Returning Pointers	18-05-2024
23184	Accessing Values through Pointers: Understanding Dereferencing	18-05-2024
23227	Increment and Decrement Operators: Updating Variable Values	18-05-2024

Presentation Tips:

i) Structure your presentation: Start with an introduction, followed by the main points of your topic, and conclude with a summary or key takeaways.

ii) Use visual aids: Slides, diagrams, and code examples can enhance your presentation and make it more engaging.

iii) Practice your delivery: Rehearse your presentation beforehand to ensure smooth delivery and time management.

iv) Engage your audience: Ask questions, encourage participation, and be enthusiastic about your topic.

v) Be clear and concise: Avoid jargon and explain technical terms in simple language.

vi) Focus on key concepts: Don't try to cover everything; prioritize the most important aspects of your topic.

Remember, the goal is to effectively communicate your knowledge and understanding of the assigned topic to your classmates. Good luck!

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