

ASSIGNMENT-1

Subject: Programming in C

Last Date of Submission: 2082/08/28

UNIT 1

1. What do you mean by programming language? Explain machine language, assembly language and high-level language.
2. Why high-level programming is preferred over low-level programming language? Explain advantages and disadvantages of high-level programming language and low-level programming language.
3. What do you mean by language translation? Differentiate between compiler and interpreter.
4. Explain different types of software with suitable examples.
5. Explain different generation of programming language.
6. Explain the concept of structured programming.
7. Discuss the Significance of Algorithm and Flowchart in Programming. Write an Algorithm and flowchart to find the number given by user is divisible by 2,3, and 6 or not.
8. What are the different steps in problem solving using computer? Briefly explain each step.
9. Write an Algorithm and flowchart for whether it is even and divisible by 3.
10. Write short notes on:
 - Debugging and testing
 - Errors in programming

UNIT 2

1. Explain the following terms:
 - i. C as a middle level language
 - ii. C as a system programming language
2. Define the following terms with suitable examples.
 - Character set
 - Token
3. Why it is necessary to have knowledge of data type in C programming. Explain all types of data types of data type available in C.

OR

(What are different data types available in C? Explain their type's qualifier, conversion character, range of value and storage size in memory occupied by each type)
4. How can you declare following variables using suitable data types? Mobile phone numbers, address, body, temperature, salary. Also explain each memory occupancy size and range

(Perform similar operations for Registration number, Account number, age, weight, distance jumped by frog, Examination symbol number of students, Prime number between 5 and 555)

5. Define operator and operand. List the types of operators and explain any five of them.
6. Describe about the unary operator, binary operator and ternary operator with example.

OR

Describe different types of operators on the basis of number of operands.

7. Differentiate between keywords and identifier. Write the rules of naming identifiers in C?
8. Differentiate between variables and constants. Which of the following are invalid variable name and why?

Minimum	First.name	Row Total	&name
Doubles	3 rd _row	Column-total	integer

9. What do you mean by formatted and unformatted I/O functions in C programming? Explain different formatted I/O functions with suitable examples.
10. Why C is called structured programming language? Which programming language do you prefer to develop system software and application software? Explain with suitable examples.
11. Write short notes on:

- ❖ History of C language
- ❖ Features of C
- ❖ ASCII
- ❖ Format specifier