

Vision Institute of Technology Kanpur

Notes of Programming for Problem Solving(KCS201)

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Subjective Question(UNIT 4)

1. What is array? Describe one dimensional array in detail along with examples.
2. Write a program in 'c' which taken ten integers and print their average. Also draw the flow chart and write the algorithm. **(2009)**
3. Write a program in 'C' to accept 10 integer numbers and print them in reverse order **(2008)**.
4. Write a program to convert given decimal number into binary number using stack **(2008,09)**
5. Write a 'C' program to read 10 integers numbers and Display the maximum and minimum number. **(2009)**
6. Describe Two dimensional array in detail along with examples.
7. Write a program in 'c' that accepts $N \times N$ matrix as input and print transpose of this matrix? (**2009,10**)
8. Write a program in 'C' to add TWO marrices of $N \times N$ dimension.
9. Write a program in 'C' to multiply TWO marrices of $N \times N$ dimension. **(2008,09,10,11,12)**
10. Write a 'C' program to store the numbers in 4×3 Matrix. Find the Greatest and lowest number of the Matrix. **(2009)**
11. What is Pointer? How to declare pointer? Write a 'C' program to swap the values of two variables making use of pointer? **(2008,10,11)**
12. What is Structure? How to declare structure in 'c'?
13. Write a simple database program in C which stores personal details of 100 persons such as Name, Date of Birth, Address, phone numper etc **(2009)**
14. Write a 'C' program that compare two given dates. to store a date, use a structure that contains three members namely day, month and year. If the dates are equal then display message as "equal" otherwise "Unequal". **(2008)**
15. What do you mean by array of structure. Declare a structure which contains the following members and write a program in C to list all students who scored more than 75 marks Roll No, Name, Father's Name, Age, City, Marks. **(2009)**
16. What is structure in 'C'? Declare a structure named student containing members Name, Roll no, and marks. Create an array of 30 such structure. Write a program to read and display the content of the array. **(2009)**
17. Explain the concept of dynamic Memory allocation in 'C'. Also explain different functions used in 'C' for dynamic memory allocation. **(2008,09,12)**
18. Write Short Notes on Creation of Link List in 'C'. **(2008)**