

DYA SHREE ACADE

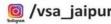


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Subject- IT & Prog-II

Class- 12th

Topic- Holiday Assignment

Assignment

- 1. What is data structure?
- 2. Explain the operations perform on the data structure.
- 3. What is algorithm?
- 4. Explain about the time complexity and space complexity.
- 5. Write the Big O Notation of the following algorithm
 - **Binary Search** (a)
 - **Selection Sort** (b)
 - Sequential Search (c)
 - (d) **Quick Sort**
- 6. What is array and How many types of array?
- 7. How can we declare multidimensional array? Write example also.
- 8. Calculate the address of 8 element of floating point array Marks[10]. Whose base address is 252.
- 9. Calculate the address of 12 element of an integer array Result[20]. Whose base address is 800.
- 10. Write the formula of calculating address of an element in multidimensional array by using-
 - (a) Row Major order
 - (b) Colum Major order

Activity

- 1. Install the Turbo C++ software or App in your laptop or in your mobile and write a program Fibonacci Series in c using recursion.
- 2. Write a program of Binary Search in c language.
- 3. Draw the chart on Classification of data structure.
- 4. How can technology change your life in this pandemic of COVID-19?