

Assignment-27: DMA

1. Write a program to ask the user to input a number of data values he would like to enter then create an array dynamically to accommodate the data values. Now take the input from the user and display the average of data values.
2. Write a program to calculate the sum of n numbers entered by the user using `malloc` and `free`.
3. Write a function to merge two array elements and store it in a dynamically created array. Return the address of this dynamically created array.
4. Define a structure `Student` with `name`, `roll number` and `college name` as members. Define another structure `Team` with two `Student` type variables as members.
5. In question 4, define a method to dynamically create a `Student` type variable and initialize it with the values received in the arguments. Return address of the `Student` type variable.
6. In question 4, define a method to dynamically create a `Team` variable, initialize it with the received arguments. Return address of the `Team` variable.
7. In question 4, define a method to display data of `Student` type, also define a method to display data of `Team` type.
8. In question 4, define a method to dynamically create an array of pointers of type `Student`. Array size is received as an argument. Return the address of the array.
9. In question 4, define a method to dynamically create an array of pointers of type `Team`. Array size is received as an argument. Return the address of the array.
10. In question 4, define a driver function to create 6 `Students` and 3 `Teams`. Form teams by assigning two students in each team. At last display the list of teams with students in them.