

# Object Oriented Programming LAB – BSDSF24

(Both Morning and Afternoon)

## Lab 08 –25-03-2025

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use notepad++ and developer command prompt for the following tasks

1. In the main function creates an CPP style array of floats of size 25. Then input an integer from the user and make sure it is less than or equal to 20. Then using loop, populate array up to just below the index matched to the inputted number, with reciprocals of the index of array, use 0 for exception, if any. Using loop print array as comma separated values in a line. **[15 marks]**
2. Again, input a number up to 20, but not the same as that in task 1. Interchange the value in array at that index with the last value stored in array in task 1. Using loop print array as comma separated values in a line. **[15 marks]**
3. Again, input a number up to 20, but not the same as that in task 1. Insert square of that value at the index corresponds to that number. After this insertion the count of values stored in the array should be increased by 1. Using loop print array as comma separated values in a line. **[15 marks]**
4. Delete the middle value from the array. After this deletion the count of values stored in the array should be decreased by 1. In case count of values in array is even, delete middle values at lower index. Using loop print array as comma separated values in a line. **[15 marks]**
5. Put all you learned/practice above in a class named Bag, with at least following member functions. **[40 marks each]**

```
constructor of bag    // create an empty bag with size 0
void populate(int)    // populate array like in task 1 up to index as parameter
void insert(float, int) // insert float parameter in array at int parameter
float extract(int)    // remove value at int parameter and return it
operator<<           // to output array in comma separated values
```

Thank you for your patience