

Data Structure and Algorithm

Training Assignments


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RECORD OF CHANGES

No	Effective Date	Change Description	Reason	Reviewer	Approver
1.	20/02/2021	Create a new Assignment 3	Create new	DieuNT1	VinhNV

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	CODE:	DSA_Assignment3_Opt01
	TYPE:	N/A
	LOC:	N/A
	DURATION:	180 MINUTES

Assignment 3: Stack, Queue and Recursion

Objectives:

- » Understand the features of Stack and Queue data structure.
- » Able to use Stack and Queue to solve simple programming problems.
- » Understand what is recursion and recursive algorithm
- » Apply recursive algorithm to write the basic programs.

Assignment Descriptions:

Problem 1: Write Java program to create a Stack of integer value. The Stack program will provide a menu to operate the stack. See example below.

```
=====
Stack  Operations Menu
=====
1. Push an item
2. Delete items
3. Show the number of items
4. Show min and max items
5. Print all items
6. Find all primes in stack
7. Delete all items
8. Exit
Enter your choice:1
```

Problem 2: Create a Java program do above requirements but use Queue structure

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