

# Quiz #03 – OOP – BSDSF22

12 Oct 2023

10-15 minutes

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Name: \_\_\_\_\_ Roll No: \_\_\_\_\_

**Honor Code:** By signing below, I am declaring under oath that  
I will solve the quiz by myself solely and will not  
take any help from neighboring fellows.

Signature

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Draw UML class diagram and later define a class named Queue in python language. A Queue is a collection of objects added and removed from the Queue using the first-in first-out (FIFO) principle. The size of the Queue is incremented after an object is inserted in Queue and it is decremented when an object is removed from the Queue. A Queue with size 0 (no object in the Queue) is an empty Queue. The objects in the Queue may be accessed sequentially. Any object in the Queue may be deleted but cannot be modified and also its position in the Queue cannot be altered. The object removed from the Queue may be processed later, but the object deleted from the Queue mean sent it to the bin (trash can). Note: the insertion and removal operation in the Queue oftenly named as enqueue and dequeue.