1.	FizzBuzz	5
	Time: 25 Minutes	
	Write a method named <i>getFizzyBuzz</i> in a class <i>FizzBuzz</i> . The method should take	
	an integer <i>n</i> as a parameter and return a string. The logic should be:	
	1. If n is divisible by 3, return "Fizz".	
	2. If n is divisible by 5, return "Buzz".	
	3. If n is divisible by both, return "Fizzbuzz".	
	4. Otherwise, return "Boom".	
	Write at least 4 unit tests to validate each of the cases.	
2.	MaxStack	10
	Time: 50 minutes	
	You need to create a class named <i>MaxStack</i> that represents a last-in-first-out (LIFO) data structure with the following properties:	
	1. It has <i>push(int)</i> and <i>pop()</i> operations that work the same way as a normal stack.	
	2. In addition, it has a <i>max()</i> operation that returns the maximum value in the current stack.	
	Constraints	
	The $max()$ operation should operate at constant complexity, $O(1)$. This means you cannot use a loop or recursion to find the minimum value.	
	Test cases	
	1. Push 3, 2, 5, 1. Assert max = 5.	
	2. Push 3, 2, 5, 1. Pop. Assert max = 5.	
	3. Push 1, 2, 3, 4. Assert max = 4.	
	4. Pop 4 from 1, 3, 4, Assert max = 3.	
	Hint	
	1. You can use the built-in Stack class if necessary.	
	2. An additional hint will be given after 15 minutes if you ask for it.	
3.	Practice Generics (Implement the concept discussed in the Theory class)	5
	Time: 35 minutes	
	You have to create a generic method printList in Printer class that takes a list of Faculties or students i.e., can support an Inheritance hierarchy.	

1. Create a Person class having a name, address, and age attribute. Override

toString method.

- 2. Create a Student class that extends the Person class and has one additional attribute studentID. Override toString method.
- 3. Create a Faculty class that extends the Person class and has one additional attribute designation. Override toString method.
- 4. Create a generic Printer class and declare a generic method.

Bonus Generics

Convert the task 2 into a generic implementation

[If you can complete this you will get 5 marks bonus.]