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**EISTME1882**

**WEEKEND SNACK: FUNCTIONS**

1. **isEven(integer) -> boolean:** Write a function that takes an integer and returns **true** if the integer is even and returns **false** if the integer is odd.
2. **isPrimeNumber(integer)-> boolean:** Write a function that takes an integer and returns **true** if the number is a prime number and returns **false** if it is not a prime number.
3. **subtract(integer, integer)-> integer:** Write a function that takes 2 integers and returns the **positive difference** irrespective of the parameter [order. ie](http://order.ie) 3, 7 and 7, 3 should return 4.
4. **divide(integer, integer)-> float:** Write a function that takes 2 integers and returns the **quotient.** If the second integer is 0 (zero). **please return 0 as your quotient.**
5. **factor0f(integer)-> integer:** Write a function that takes an integer and returns the **number of factor for the** [**integer.**](http://integer.ie) ie, if the function takes in 10, it should return 4 because factors of 10 are 1,2,5,10.
6. **isSquare(integer)->boolean:** Write a function that takes an integer and returns **true** if the integer is a square [number. ie](http://number.ie) if I pass in 25, the function should return true.
7. **isPalindrome(integer)->boolean:** Write a function that takes an 5 digit integer and returns **true** if it is a [palindrome. ie](http://palindrome.ie) if I pass in 54145, it should return true.
8. **factorialOf(integer)-> long:** Write a function that takes an integer and returns the **factorial of the number.** If I pass in 5, i expect 120 (5 \* 4 \* 3 \* 2 \*1).
9. **square0f(integer) ->** long: Write a function that takes an integer and returns the **square of the number.** if I pass in 5, i expect 25(5 \* 5).

You can google the mathematics terms used in this assignment to gain clarity before doing the tasks.

Create a class called **Kata** and create all of the functions in the class.

**Submission instruction:** push the code alongside your existing code to github and add me as a contributor (my handle is *i-am-chibuzo).*

*PS: This snack is not a group snack, DO NOT SHARE. Enjoy your short weekend*

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