Kotlin Assignment

1) Class and objects

a. Write a class in kotlin named "Rectangle" with the methods "area", "perimeter" and "diagonal".

Test Case:

b. Write a class in kotlin named "SpongeBob" with a method "mockingText" which returns the input text as mocking spongebob text.

Hint: You can use In-built function ".random()"

```
Eg:
fun main(){
   var f = SpongeBob()
   println(f.mockingText("abcdefghijklmnopqrstuvwxyz"))
   // aBCdeFGHIjklmnOPQrsTUvWXYZ
}
```

c. Write a Kotlin class named "Parenthesis" with a method "isValid" which returns true if the given string of parenthesis is balanced or false otherwise Eg:

d. Write a kotlin class named "Converter" with a method "IntToRoman" which takes an Integer argument and returns a string of roman numeral

```
Eg:
fun main(){
    var f = Converter()
    println(f.IntToRoman(1234)) //MCCXXXIV
    println(f.IntToRoman(84)) //LXXXIV
    println(f.IntToRoman(3452)) //MMMCDLII
}
```