Quiz 3

1. Write if/else ruby statement in only one line

```
foo = false
bar = true
a = (foo && "a" or bar && "b" or “c")
or
a = ("a" if foo) || ("b" if bar) || “c"
```

2. Ruby program that calculates the sum of all the numbers between 0 and 100 that are divisible by both 3 and 5?

```
def calsum
        a = 0
        for i in 0..100
                if i % 3 == 0 and i % 5 ==0
                puts i
                a = a + i
                i = i + 1
        end
end
puts "The total that are divisible by both 3 and 5 till 100 is : #{a}"
end
calsum()
```

3. Write a Ruby program to convert user input to upper, lower and capital letters

```
puts "Enter your name: "
name =  gets
puts " Your name after using upcase is: " + name.upcase()
puts " Your name after using in downcase is: " + name.downcase()
puts " Your name after using in capitalize is: " + name.capitalize
```

4. File Operations with Ruby

write your own ruby program that :

creates a file and writes some text into it, then closes it,
open the same file, and print all lines inside that file,
then, delete that file

```
fname = "sample.txt"
somefile = File.open(fname, "w")
somefile.puts "This is test of file opening, closing and deleting by using Ruby
programming"
somefile.close
```

```
file = File.open("sample.txt", "r")
contents = file.read
puts contents
File.delete("/Users/shahed/Ruby/sample.txt")
```

5. write your own Ruby program that converts a array to yml and loads the yml output and print array using:
load()
dump()

```
require 'yaml'
ArrayLine = %w[This is a test of How to use YAML in Ruby programming]

yaml_line = ArrayLine.to_yaml

array_ln = YAML::load(yaml_line)
yaml_ln = YAML::dump(array_ln)
puts yaml_ln
```

6. Write a Ruby program that converts a array into json, now parse your json looking for a specific array element

```
require "json"
browsers = Array.new
browsers = ['Chrome', 'Firefox', 'Safari', 'Opera', 'IE']
json_string = browsers.to_json
puts json_string
browsers2 = Array.new
browsers2 = JSON.parse(json_string)
puts browsers.include?('Safari')
```

7. Write a Ruby program to generate json using pretty

```
require 'json'
my_json = { :array => [1, 2, 3, { :sample => "hash"} ], :foo => "bar" }
puts JSON.pretty_generate(my_json)
```

8. Write a Ruby program that connects to MySQL Database in your pc and executes a select query

```
require 'mysql'
con = Mysql.new('localhost', '', '', 'ruby')
rs = con.query('select * from student')
rs.each_hash { |h| puts h['name']}
con.close
```