Quiz 1

1. Write a Ruby Program to compute that takes input number from a user and prints All Fibonacci Numbers Upto that number. Your program should validate if the user provided input is a number or not.

```
First n Fibonacci numbers first using loop.
Second, write the same program using Recursion.
class Fibo
def get value
n=gets.chomp.to_i
a=0
b=1
sum=0
while sum<n do
sum = a+b
puts sum
a=b
b=sum
end
end
end
d=Fibo.new
d.get value
2. Write a Ruby program to find a number is prime or not
num = gets.to i
last = gets.to i
while (num <= last)
       prime flag = true
       x = 2
       while (x \le num /2)
              if (num %x == 0)
                     prime flag = false
                     break
              end
       x += 1
```

end

if prime flag

- 4. Write a Ruby program that Prints all permutations of a string using loops for example, if input to program is xyz, the program prints x, xy,xyz,y,yz,xyz etc
- 5. Ruby program to reverse a string

```
"I ma ohw".reverse
```

6. Ruby program that takes a image url (http://www.bacteriainphotos.com/photo %20gallery/mrsa%20picture.jpg) and prints it's height and width.

Hint: use fast image

https://github.com/sdsykes/fastimage

FastImage.size(http://www.bacteriainphotos.com/photo%20gallery/mrsa%20picture.jpg)

7. Write a program to print the top store in reddit.

HINT: reddit.com/.json

8. Write a Ruby program to sort an array.

```
array = [3,1,5,2,6,4]

array.sort {|v1,v2| v1 <=> v2}

array.sort {|v1,v2| v2 <=> v1}
```

9. Write a Ruby program to convert all the elements of an array to a single string

```
array = [3,2,5,4,1,6]
array.map { |i| "'" + i.to_s + "'" }.join(",")
```

10. Write a Ruby program that iterates through every element of an array and returns a new array HINT: .map()