**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.

A). def fib\_upto(5)

I1,i2= 1,1

While i1 <= 5

Yield i1

I1,i2= i1,i1+i2

end

end

fib\_upto(5) {|f| print f, “ “}

using recursion

def fibonacci(n)

    if n<= 2

        n

    else

        fibonacci(n-1) + fibonacci(n-2)

    end

end

puts fibonacci(6)

2. Write a Ruby program to find a number is prime or not

Puts “enter number”

A=gets.to\_i

If A%2 != 0 && A%3 !=0

Puts “enter number is prime”

else

Puts “enter number is not prime”

end

gets

3. Write a Ruby program using Recursion to print the Factorial of a number

def factorial(n)

    if n == 0

        1

    else

        n \* factorial(n-1)

    end

end

puts factorial(5)

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 rogram to reverse a string

X=”prathap”

Puts X.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>

require ‘fastimage’

Fastimage.size(“<https://github.com/sdsykes/fastimage>”)

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

HINT: reddit.com/.json

8. Write a Ruby program to sort an array.

Letters= [“p” , “a”, “g”, “c”]

Letters.sort

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

values = ["a", "b", "c"]

result = values.**join**

puts result

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

class array

def keep\_evens

result\_array = []

for num in array

result\_array << num if num % 2 == 0

end

return result\_array

end

end