**Quiz 1**

**Arun ruby quiz1**

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.

Answer: puts "please enter a number to print prime or not"

@num = gets.to\_i

@i=2

while (@i<=(@num/2))

if (@num % @i == 0)

puts "the given number #{@num} is not a prime number"

break

else

puts "the given number #{@num} is a prime number"

end

@i+=1

end

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

answer:

puts "given two numbers"

puts "enter first num"

num = gets.to\_i

puts "enter sec num"

num1 = gets.to\_i

while (num <= num1)

prime\_flag = true

x = 2

while (x <= num / 2)

if (num % x == 0)

prime\_flag = flase

break

end

x += 1

end

if prime\_flag

puts "a prime number > " + num.to\_s

end

num += 1

end

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

answer:

def factorial(n)

if n == 0

1

else

n \* factorial(n-1)

end

end

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

answer:

a=[1,2,3,4]

b=[]

for i in 0..a.length-1

b[i]=a[i]

end

b.each { |n| puts n }

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>

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

HINT: reddit.com/.json

8. Write a Ruby program to sort an array.

Answer: def sortedlist(array, reverse = false)

if

reverse == false

array.sort{|a,b| a <=> b}

else

array.sort{|a,b| b <=> a}

end

end

num\_order = [2,4,6,3,1,4]

puts "In list order : #{sortedlist(num\_order)}"

puts "In reverse sort : #{sortedlist(num\_order, true)}"

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

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

answer: