**Quiz 1\_Ruby\_Ashish**

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.

Ans:

def fib(n)

n <= 2 ? 1 : fib(n - 1) + fib(n - 2)

end

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

Ans :

puts "welcome to prime number check"

puts "enter number for check: "

n = gets

n = n.to\_i

def prime(n)

puts "That's not an integer." unless n.is\_a? Integer

is\_prime = true

for i in 2..n-1

if n % i == 0

is\_prime = false

end

end

if is\_prime

puts "#{n} is prime!"

else

puts "#{n} is not prime."

end

end

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

Ans:

def factorial1(num)

if num < 0

return "Please use a positive number"

end

if num <= 1

1

else

num \* factorial1(num-1)

end

end

4. Write a Ruby program thatPrints all permutations of a string using loops

for example, if input to program is xyz, the program prints x, xy,xyz,y,yz,xyzetc

Ans :

def combinations(items)

return [] unless items.any?

prefix = items[0]

suffixes = combinations(items[1..-1])

[[prefix]] + suffixes + suffixes.map {|item| [prefix] + item }

end

combinations(%w(a b c))

5. Ruby program to reverse a string

Ans :

#!/usr/bin/env ruby

a = "ashish"

a.reverse!

puts a

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>

Ans:

require 'fastimage'

FastImage.size("http://stephensykes.com/images/ss.com\_x.gi

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

HINT: reddit.com/.json

8. Write a Ruby program to sort an array.

Ans:

-- asc order--

#!/usr/bin/env ruby

numbers = [77, 567, 110, 30000, 111000, 225]

numbers.sort! {|x, y| x <=> y}

puts numbers

--Desc Order--

#!/usr/bin/env ruby

numbers = [77, 567, 110, 30000, 111000, 225]

numbers.sort! {|x, y| x <=> y}

puts numbers

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

Ans :

#!/usr/bin/env ruby

values = ["as","hi","sh"]

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()