**Rajesh pulabala**

**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.

puts "please enter a number"

n = gets.to\_i

first = -1

second = 1

for i in 0..n

sum = first + second

first = second

second = sum

end

puts "the fibanocci value is",sum

gets

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

puts "enter a number"

n = gets.to\_i

i = 2

while (i<=n/2)

if (n%i == 0)

puts "it is not a prime number"

break

else

puts "its a prime number"

i = i+1

end

end

gets

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

n = gets.to\_i

fact = 1

if n!=0

for i in 1..n

fact = fact \* i

puts fact

end

else

puts "the value is 1"

end

gets

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

def stringreverse

puts "enter a string to reverse"

string = gets.to\_s

puts string.reverse

end

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.

array = ["c","b","e","d","a"]

array.sort!

puts array

end

gets

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

array = ["hi","friends","good","morning"]

array.join(" ")

puts array

end

gets

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

a = [1,2,3,4,5]

b = a.map{|a| a \* 2}

puts b

end

gets