**Quiz 1**

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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 fibonacci series"

@num = gets.to\_i

@variable=0

@n1=0

@n2=1

@n3

puts @n1

puts @n2

for i in 2..@num

@n3=@n1+@n2

puts @n3

@n1=@n2

@n2=@n3

end

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

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

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

answer:

puts "please enter a number for calculating factorial"

num=gets.to\_i

fact=1

for i in 1..num

fact \*=i

end

puts "the factorial of given number is :",fact

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

answer:

5. Ruby program to reverse a string

answer:

puts "please enter a string to reverse"

string = gets.to\_s

puts string.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>

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

arr=[]

for i in 0..5

if i % 2==0

arr[i]=i+3

else

arr[i]=i+2

end

end

arr.sort

arr.each{|j| puts j}

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

answer:

arr=[]

for i in 0..5

if i % 2==0

arr[i]=i+3

else

arr[i]=i+2

end

end

arr.sort

puts arr.join

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

answer:

a=[1,2,3,4]

b=[]

for i in 0..a.length-1

b[i]=a[i]

end

b.each { |n| puts n }