**Quiz 4**

1. Ruby Program that prints the Time in different time zones

Answer:

t=Time.new

t.gmtime

2. Write a program that iterates over an array and builds a new array that is the result of incrementing each value in the original array by a value of 2. You should have two arrays at the end of this program,

The original array and the new array you've created.Print both arrays to the screen using the p method instead of puts.

Answer:

a=[2,3,4]

b=Array.new

print a

len=a.length

for i in 0..len-1

b[i]=a[i]+2

end

print b

3. Ruby program to find the leap year when start and end year are given.

Answer:

puts "Enter a year from where you what to check"

year1=gets.to\_i

puts "Enter a year from till you want to check"

year2=gets.to\_i

for i in year1..year2

if i%400 == 0

puts ("#{i} is a leap year.")

elsif ( i%100 == 0)

puts("#{i} is not a leap year.")

elsif( i%4 == 0 )

puts("#{i} is a leap year.")

else

puts("#{i} is not a leap year.\n")

end

end

gets

4. Ruby program that takes a numerical value and give the output as Roman number

5. Write a your own ruby program that uses a Queue

6. Write your own ruby program that uses each\_with\_index method to iterate through an array that prints each index and value

Answer

a=["umar","baba","Sheik"]

for i in 0..a.length-1

print i

x=a[i]

print ":#{x}\n"

end

7. Ruby Program that prints if duplicates existing in a array

Answer:

a=[1,2,3,1]

puts a.find\_all {|x| a.count(x) > 1}

8. Write a Ruby program that prints pascal triangle

Answer:

num=5

a=1

for i in 0..num

if i==0

puts "#{a}"

elsif i==1

puts "#{a}\t#{a}\n"

elsif i==2

print "#{a}\t#{2\*a}\t#{a}\n"

elsif i==3

print "#{a}\t#{3\*a}\t#{3\*a}\t#{a}\n"

elsif i==4

print "#{a}\t#{4\*a}\t#{6\*a}\t#{4\*a}\t#{a}\n"

elsif i==5

print "#{a}\t#{5\*a}\t#{10\*a}\t#{10\*a}\t#{5\*a}\t#{a}\n"

end

end

9. Write a Ruby program that prints the length of the common string when two strings are compared.

Answer:

puts “String1”

str1=gets

puts “String1”

str2=gets

if str1==str2

puts “Equal”

else

puts "Not"

end