Assignment 2

Install ruby using rvm

Q1. What rvm is used for?

Ruby on Rails is one of the most popular

application stacks for developers wishing to create sites and web

apps. The Ruby programming language, coupled with the Rails

development framework, makes app development simple.Since Ruby on

Rails doesn't come in a neatly packaged format, getting the framework

installed used to be one of the more difficult parts of getting

started. Luckily, tools like rvm, the Ruby Version Manager, have

made installation simple.

Ruby Version Manager, often abbreviated as RVM,

is a unix-like software platform designed to manage multiple

installations of Ruby on the same device. The entire ruby environment

including the Ruby interpreter, installed RubyGems, and documentation

is partitioned.RVM provides features for organization of

Ruby gems through "gemsets", collections of gems

separated by a namespace and associated Ruby installation.

Q2. What is "#!"?

In computing, a shebang is the

character sequence consisting of the characters number

sign and exclamation mark (#!) at the beginning of

a script. It is also

called sha-bang hashbang,pound-bang, or hash-pling.The

shebang line is usually ignored by the interpreter because the "#"

character is a comment marker in many scripting languages;

some language interpreters that do not use the hash mark to begin

comments (such as Scheme) still may ignore the shebang line in

recognition of its purpose.[8] Other solutions rely on a

preprocessor that evaluates and removes the shebang line and sends

the remainder of the script to a compiler or interpreter.

Q3. Ruby program to find nth number in

fibonaccci series.

def Fib(n)

i=2

a=0

b=1

p a

p b

while i<n

c = a + b

a = b

b = c

p c

i = i + 1

end

end

n = (ARGV[0] || 4).to\_i

Fib(n)

Q4. Ruby program to solve Josephus Problem

def Jos(n,k)

a = (1..n).to\_a

p a

while a.length != 1

a.rotate!(k-1).shift

p a

end

p 'Winner is: '

p a[0]

end

n = (ARGV[0] || 5).to\_i

k = (ARGV[1] || 2).to\_i

Jos(n,k)