**Quiz 3- HIMABINDU MELACHURU**

1. Write if/else ruby statement in only one line

**irb(main):063:0> def num**

**irb(main):064:1> puts "enter a number"**

**irb(main):065:1> num = gets.to\_i**

**irb(main):066:1> if (num == 5) then 'True' else 'False'**

**irb(main):067:2> end**

**irb(main):068:1> end**

**=> :num**

**irb(main):069:0> num**

**enter a number**

**5**

**=> "True"**

**irb(main):070:0> num**

**enter a number**

**4**

**=> "False"**

2. Ruby program that calculatesthe sum of all the numbers between 0 and 100 that are divisible by both 3 and 5?

irb(main):028:0> def num

irb(main):029:1> sum = 0

irb(main):030:1> for i in 0..100

irb(main):031:2> if (i % 3 == 0) && (i % 5 == 0)

irb(main):032:3> sum = sum + i

irb(main):033:3> puts sum

irb(main):034:3> end

irb(main):035:2> end

irb(main):036:1> end

=> :num

irb(main):037:0> num

0

15

45

90

150

225

315

=> 0..100

3. Write a Ruby program to convert user input to upper, lower and capital letters

maximuspro:~ bindu$ irb

irb(main):001:0> def names

irb(main):002:1> puts "Enter the characters"

irb(main):003:1> name = gets.to\_s

irb(main):004:1> puts name

irb(main):005:1> puts name.upcase

irb(main):006:1> puts name.downcase

irb(main):007:1> puts name.capitalize

irb(main):008:1> end

=> :names

irb(main):009:0> names

Enter the characters

himabindu

himabindu

HIMABINDU

himabindu

Himabindu

=> nil

irb(main):010:0>

4. File Operations with Ruby

write your own ruby program that :

creates a file and writes some text into it, then closes it,

open the same file, and print all lines inside that file,

then, delete that file

#!/usr/bin/ ruby

filename = "hima.txt"

File.open("hima.txt", 'w') { |file| file.write("This is my first line") }

file.close()

file = File.open("hima.txt", "r")

file.each {|file| puts file}

File.delete("hima.txt")

OUTPUT:

This is my first line

exit

5. write your own Ruby program that converts a array to yml and loads the yml output and print array using:

load()

dump()

require 'YAML'

Last login: Thu Nov 19 05:46:02 on ttys000

maximuspro:~ bindu$ irb

irb(main):001:0> require 'YAML'

=> true

irb(main):002:0> array = [ "cat", "dog", "pig", "monkey" ]

=> ["cat", "dog", "pig", "monkey"]

irb(main):003:0> puts array.to\_yaml

---

- cat

- dog

- pig

- monkey

=> nil

irb(main):004:0> puts YAML.load("dog")

dog

=> nil

irb(main):005:0> puts YAML.dump(array)

---

- cat

- dog

- pig

- monkey

=> nil

irb(main):006:0>

6. Write a Ruby program that converts a array into json, now parse your json looking for a specific array element

irb(main):001:0> require 'json'

=> true

irb(main):002:0> require 'pp'

=> true

irb(main):003:0> array = [["firstname", "Himabindu"], ["Lastname", "Melachuru"], ["country", "India"]]

=> [["firstname", "Himabindu"], ["Lastname", "Melachuru"], ["country", "India"]]

irb(main):004:0> h = Hash[array.map {|key, value| [key, value]}]

=> {"firstname"=>"Himabindu", "Lastname"=>"Melachuru", "country"=>"India"}

irb(main):005:0> x = h.to\_json

=> "{\"firstname\":\"Himabindu\",\"Lastname\":\"Melachuru\",\"country\":\"India\"}"

irb(main):006:0> parsed = JSON.parse(x)

=> {"firstname"=>"Himabindu", "Lastname"=>"Melachuru", "country"=>"India"}

#!/usr/bin/ruby

require 'rubygems'

require 'json'

require 'pp'

json = File.read('input.json')

obj = JSON.parse(json)

pp obj

7. Write a Ruby program to generate json using  pretty

maximuspro:~ bindu$ irb

irb(main):001:0> require 'json'

=> true

irb(main):002:0> hash = { "Firstname" => "Himabindu", "Lastname" => "Melchuru", "Country" => "India", "Place" => "Milpitas" }

=> {"Firstname"=>"Himabindu", "Lastname"=>"Melchuru", "Country"=>"India", "Place"=>"Milpitas"}

irb(main):003:0> puts JSON.pretty\_generate(hash)

{

"Firstname": "Himabindu",

"Lastname": "Melchuru",

"Country": "India",

"Place": "Milpitas"

}

=> nil

irb(main):004:0>

8. Write a Ruby program that connects to MySQL Database in your pc and executes a select query

#!/usr/bin/ruby -w

require 'mysql'

require "dbi"

begin

dbh = DBI.connect("DBI:Mysql:TESTDB:localhost",

"testuser", "test123")

res = dbh.query("SELECT \* name")

res.each do |name|

puts "#{name}"

res.free

end