**ASSIGNMENT 3 100 Points CIS 113OL**

**In EVERY file (except graphics files) submitted you MUST place these comments:**

Your Full Name

Your Email [@my.smccd.edu](mailto:@my.smccd.edu)

CIS113

Assignment#:

Date

**Assignment Questions**

1. **For the below arrays defined, what will be value returned for “arr”.**

1. arr = ["b", "a"]

arr = arr.product(Array(1..3))

arr.first.delete(arr.first.last)

2. arr = ["b", "a"]

arr = arr.product([Array(1..3)])

arr.first.delete(arr.first.last)

1. **For the below array, how do you print the word “example” from this array.**

arr = [["test", "hello", "world"],["example", "mem"]]

1. **For the below array, what value is returned from “arr”?**

arr = [15, 7, 18, 5, 12, 8, 5, 1]

1. arr.index(5)

2. arr.index[5]

3.arr[5]

1. **What is value of “a”, “b”, “c” in the following array definition.**

string = "Welcome to Ruby Programming!"

a = string[6]

b = string[11]

c = string[19]

1. **When you run the following code, you receive an error. Please suggest how to fix this error.**

names = ['bob', 'joe', 'susan', 'margaret']

names['margaret'] = 'jody'

**TypeError: no implicit conversion of String into Integer**

1. 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.

1. **Given the family of hash members, with keys as the title and an array of names as the values, use the Ruby’s built in method to gather immediate family members (“brothers” and “sisters”) only into a new array.**

family = { uncles: ["bob", "joe", "steve"],

sisters: ["jane", "jill", "beth"],

brothers: ["frank","rob","david"],

aunts: ["mary","sally","susan"]

}

1. **Given the following expression, please identify the “name” of the person.**

person = {name: 'Bob', occupation: 'web developer', hobbies: 'painting'}

1. **Given the following code, what is the difference between the two “hashes” that are created below.**

x = "hi there"

my\_hash = {x: "some value"}

my\_hash2 = {x => "some value"}

1. **What method could you use to find out if the hash contains specific value in it. Write a small program to demonstrate the usage.**