**Quiz 2**

1. Ruby program when that accepts a date in a month and prints it out the appropriate suffix. For example, for 1 as input, print 1st, 2 as input 2nd, 3 as input 3rd etc

Ans

puts "Enter a date"

d = gets.to\_i

puts "Enter a year"

z = gets.to\_i

puts "Enter a month"

y = gets.to\_s

print "#{d.ordinalize}","{y}" , "{z}"

gets

2. Write your own ruby program using a case statement

Ans

print "Enter your name"

name = gets.chomp

case name

when "Raj"

puts "Hello Raj"

when "Kiran"

puts "Hello Kiran"

when "Krishna"

puts "Hello Krishna"

else

puts "You entered an invalide name"

end

gets

3. Ruby Program that iterates numbers with upto loop

Ans

1.upto(9) do |x|

print x\*\*3, " ", "\t"

end

gets

4. Write a Ruby program to print numbers from 1 to 50 and also in reverse order

Ans,

a = 1

b = 50

for a in 1..50

print a, "\t"

if a == 50

50.step(1, -1) { |i| print i,"\t" }

end

end

gets

5. Write your own Ruby program using loops and iterators. Explain the difference between loops, iterators and blocks

Ans.

puts "Using until loop"

a = 1

until a == 10

if a%3 == 0

Loops

print a, "\t"

Block

end

a += 1

end

puts "\n"

puts "Using iterative statement"

Iterators

1.upto(10) do |x|

if x%3 ==0

print x, " ", "\t"

end

end

gets

* Block contains of chunks of codes. The code in the block always enclosed with in braces.
* Iterators are methods supported by collections. They return all the elements of a collection, one after the other. In above program I used “upto” iterator.
* Loops executes the same block of code of specified number of times. In above program I am using until loop which executes the block of code until a value becomes 10.

6. Write a Ruby program that loops through a array and checks if a pattern existsin the array elements

string = ["Raj", "is", "a", "DevOp", "engineer"]

y = string.include? "Raj"

if y == true

puts "Pattern matches"

else

puts "Pattern doest matches"

end

gets

7. Write your own Ruby program using a Hash that loops through :

Print all Values while looping with Keys

Print all Keys while looping through Values

Print Keys, Values as pair.

Ans.

grades = { "Raj" => 27, "Vini" => 28, "Ram" =>30 }

grades.each do |key, array|

print "key :", "#{key}", "\n"

print "Value :", array, "\n"

print "Key value pairs ---", "#{key}>>#{array}", "\n"

end

gets

8. Write a Ruby program that takes number as input and recursively calculates the power of 2 until the calculated number is less than 10000 and prints the maximum power for that number.

9. Ruby program to convert Celsius temperature to Fahrenheit

Ans

print "Enter the temperature in Celsius"

z = gets.to\_i

y = (z\*1.8)+32

print "Temperature in Fahrenheit is: ", y

gets

10. Write a program to create a Calculator class with add(), substract(), multiply() and divide(), then take two numbers and choice of operation from user and display output using objects

Ans.

def add(a,b)

print "Sum of two number is: "

return a + b

end

def substract(a,b)

print "Difference of two number is: "

return a - b

end

def multiply(a,b)

print "Multiplication of two number is: "

return a\*b

end

def divide(a,b)

print "Division of two number is: "

return a/b

end

puts "Would you like to [add], [multiply], or [subtract]?"

response = gets.chomp

if response == "add" then

add

end

if response == "subtract" then

substract

end

if response == "multiply" then

multiply

end

if response == "Division" then

divide

end