**Ruby Programming Lab-4**

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1. **Write the definition for a class called AgeDifference that accepts the date of birth of a person. The data members are name, date, month and year. The class has the following member functions:**

**Display() – to display the date in date format DD/MM/YYYY**

**calculate() - to find the difference between current date( as a constant) and the date of birth.**

**1. Write the definitions for each of the above member functions.**

**2. Write main function to create three objects. Set the value in three objects using constructors and call calculate() to calculate difference and display the answer.**

**3. Display the who is elder and who is younger among three.**

**4. Display who are closer in their age.**

**5. Display the date of birth of each person as “27 March 1999”**

**Code:**

require 'date'

class AgeDifference

@@count = 0

@@l = []

def initialize(n,d,m,y)

@d = d

@m = m

@y = y

@n = n

@@count+=1

end

def calculate()

date = Date.today.to\_s

@cd = date[8...10].to\_i

@cm = date[5...7].to\_i

@cy = date[0...4].to\_i

@dd = (@cd - @d).abs

@dm = (@cm - @m).abs

@dy = @cy - @y

x = []

x.push(@n)

x.push(@dy)

@@l.push(x)

end

def display()

mon = ["Jan","Feb","Mar","Apr","May","Jun","Jul","Aug","Sep","oct","Nov","Dec"]

puts("Name is #{@n}")

puts("Current date is #{@cd}/#{@cm}/#{@cy}")

puts("Date of birth is #{@d}/#{mon[@m-1]}/#{@y}")

puts("The difference is #{@dy} years")

puts()

end

def self.calculate()

n = @@l.length

cl = []

max = 0

name = ""

for i in 0...n do

if(max<@@l[i][1])

max = @@l[i][1]

name = @@l[i][0]

end

end

dif = 0

for i in 0...n do

x = []

x.push(@@l[i][0])

for j in 0...n do

if((@@l[i][1]-@@l[j][1]).abs == 1)

x.push(@@l[j][0])

end

end

cl.push(x)

end

puts("The elder person among the given persons is #{name}")

print("The closer age group members are #{cl}")

end

end

d1 = AgeDifference.new("Adithya",28,5,2001)

d2 = AgeDifference.new("Bharath",25,8,2000)

d3 = AgeDifference.new("Saathvik",20,10,1999)

d4 = AgeDifference.new("Praveen",14,4,1970)

d4.calculate()

d1.calculate()

d1.display()

d2.calculate()

d2.display()

d3.calculate()

d3.display()

AgeDifference.calculate()

**Output:**

