**Ruby Programming Lab-9**

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**Code:**

module Student attr\_accessor :name, :regn def read()

@regn=gets().chomp @name=gets().chomp end

def Display()

print("Registration number: ",@regn,"\nName: ",@name,"\n") end end module Faculty attr\_accessor :eid, :name1, :sch def read1()

@eid=gets().chomp

@name1=gets().chomp @sch=gets().chomp end

def Display1() print("Employee ID: ",@eid,"\nName: ",@name1,"\n","School: ",@sch,"\n") end end class CourseAllocation require "./student.rb" require "./faculty.rb"

include Student include Faculty

def initialize(c,s)

@cc=c @sl=s end

attr\_accessor :cc, :sl puts "enter the number of courses:" n=gets().chomp.to\_i

ar=[]

puts "Enter Course code, slot, student reg no, student name, faculty employee id, faculty name and faculty school respectively"

for i in 0...n do

ob=CourseAllocation.new(gets().chomp,gets().chomp) ob.read ob.read1 ar<<ob end

print("\n") puts "Details:" for i in 0...n do puts ar[i].cc puts ar[i].sl puts ar[i].Display puts ar[i].Display1 print("\n")

end over=Array.new(n)

for i in 0...n do if over[i]

next end

s="" puts "Faculty teaching #{ar[i].cc} are:" for j in 0...n do if over[j]

next end

if ar[i].cc==ar[j].cc if ar[j].name1!=s puts ar[j].name1 end

over[j]=true s=ar[j].name1 end end

puts()

end done=Array.new(n)

for i in 0...n do if done[i] next end

for j in 0...n do if done[j] next end

if ar[i].cc==ar[j].cc

c=0

for k in 0...n do

if ar[j].name1==ar[k].name1 && ar[i].cc==ar[k].cc c+=1 done[k]=true end end

puts "#{c} students are studying #{ar[j].cc} under faculty #{ar[j].name1}" end end end

puts()

over1=Array.new(n)

for i in 0...n do if over1[i]

next end

puts "For slot #{ar[i].sl}:" for j in 0...n do if over1[j]

next end

if ar[i].sl==ar[j].sl

puts "Faculties teaching #{ar[j].cc} are:" s="" for k in 0...n do if over1[k] next end

if ar[j].cc==ar[k].cc

if ar[k].name1!=s puts ar[k].name1 end over1[k]=true s=ar[k].name1 end end end end

puts()

end

puts()

over2=Array.new(n)

for i in 0...n do if over2[i]

next end

for j in 0...n do if over2[j]

next end

if ar[i].sch==ar[j].sch

c=0

for k in 0...n do

if ar[j].name1==ar[k].name1 c+=1 over2[k]=true end end

puts "#{ar[j].name1} of school #{ar[i].sch} teaches #{c} courses" end end

puts()

end end



