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**Lab-6**

**Ruby Programming Lab**

**Question:**

**Employee ( int Emp\_id, string name, string designation)**

**Temporary ( salary\_per\_hour, total\_hours, total\_salary)**

**permanent(BP,GP,NP)**

GP = BP+ DA(15%of BP) + HRA(8000)+bonus(5% of DA)

NP=GP-PF( 2% of GP)-tax(1250)

For permanent employee basic pay need to be accepted and GP and NP need to be calculated.

For temporary employee salary\_per\_hour and total hours need to be accepted from user and total\_salary need to be calculated.

1. Create the above mentioned inheritance structure using appropriate classes.
2. Permanent employee id should begin with 5 and of 5 digits. Temporary employee id begins with 1 and of 5 digits.
3. Write display functions to display the pay roll details of permanent and temporary employees separately.

Write functions to perform the following:

* Display the permanent employee details whose employee Id is within the given range. ( lower range and upper range has to be accepted from the user)
* Display all temporary employee’s name whose crossed salary above 20000.
* Display all managers net pay with their employee ID

**Code:**

class Emp

def initialize(id,name,desig)

@id=id

@name=name

@desig=desig

end

end

class Permanent < Emp

def display(bp)

@bp=bp

@da=(@bp\*15)/100

@hra=8000

@bonus=(@da\*5)/100

@gross\_pay=@bp+@da+@hra+@bonus

puts("Gross pay:#{@gross\_pay}")

@pf=(@gross\_pay\*2)/100

@tax=1250

@net\_pay=@gross\_pay-@pf-@tax

end

def display1()

print("Permanent Employee:",@id,@name,@gross\_pay,@desig)

end

def range(start,ending)

if(@id>=start && @id<=ending)

print ("Employee id #{@id},")

end

end

end

class Temporary < Emp

def temporary\_emp(salary\_per\_hour,total\_hours)

@salary\_per\_hour=salary\_per\_hour

@total\_hours=total\_hours

@total\_salary=@salary\_per\_hour\*@total\_hours

if(@total\_salary>20000)

puts("Employee id-> #{@id} : Employee name->#{@name} : Crossed more than 20000:#{@total\_salary}")

end

end

end

print("Enter the number of Working employees in your company:")

n=gets.to\_i #number of employees

array\_perm=[]

array\_temp=[]

for i in 0...n do

print "Enter id #{i+1}:"

sid=gets.to\_i

print "Enter employee name #{i+1}:"

name=gets.to\_s

print "Enter employee designation #{i+1}:"

desig=gets.to\_s

id=sid.to\_s

size=id.length

end

if(id[0]=="5" && size==5)

for i in 0...n do

perm=Permanent.new(sid,name,desig)

array\_perm.push(perm)

print "Enter basic pay#{i+1}:"

bp=gets.to\_i

#array\_perm[i].permanent\_emp(bp)

array\_perm[i].display(bp)

array\_perm[i].display1()

end

elsif(id[0]=="1" && size==5)

for i in 0...n do

tempo=Temporary.new(sid,name,desig)

array\_temp.push(tempo)

print "Enter total working hours #{i+1} :"

total\_hours=gets.to\_i

print "Enter salary per hour #{i+1} :"

salary\_per\_hour=gets.to\_i

array\_temp[i].temporary\_emp(salary\_per\_hour,total\_hours)

end

else

print("Enter employee details correctly!!!")

end

puts ""

print("Enter range starting id:")

start=gets().to\_i

print("Enter range ending id:")

ending=gets().to\_i

for i in 0...n do

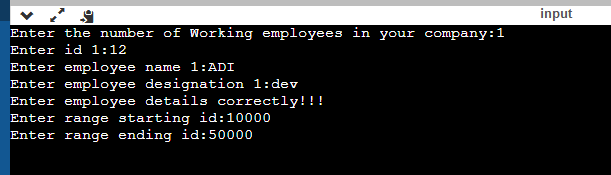
perm=Permanent.new(sid,name,desig)

array\_perm.push(perm)

array\_perm[i].range(start,ending)

end

**Output:**

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