**Lab-5**

**Ruby Programming**

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Create a class for student with the instance variables. : **Register number, name, number of credits completed, no of arrears.** Define a class variable **total credit to be completed**  in the class which is common to all the instances. Write a program for the below operation:

* Create two objects with the parameterized constructor to initialize instance variables. Accept the values from the user and pass as arguments for the constructor.
* Define **Attr\_Accessor** for all instance variables to retrieve and set the value.
* Find and display number of credits yet to finish by each students and semesters required . Assume student can complete maximum of 22 credits per semester. ( Don’t write a member function inside the class. Use **Attr\_Accessor for retrieving value)**
* Find and display the student name with the less number of arrears (Don’t write a member function inside the class. use **Attr\_Accessor for retrieving value)**
* Find and display the student name who completed more credits. (Don’t write a member function inside the class.use **Attr\_Accessor for retrieving value)**

**Code:**

class Student

@@totalcreds=221

def initialize(regd,name,creds,arrears)

@regd,@name,@creds,@arrears=regd,name,creds,arrears

end

def totalcreds()

@@totalcreds

end

attr\_accessor :regd,:name,:creds,:arrears

end

print("Enter the regd number = ")

regd= gets

print("Enter the name of student = ")

name= gets

print("Enter the no. of creds = ")

creds= gets.to\_i

print("Enter the no. of arrears = ")

arrears= gets.to\_i

student1=Student.new(regd,name,creds,arrears)

print("Enter the regd number = ")

regd= gets

print("Enter the name of student = ")

name= gets

print("Enter the no. of creds = ")

creds= gets.to\_i

print("Enter the no. of arrears = ")

arrears= gets.to\_i

student2=Student.new(regd,name,creds,arrears)

c1=student1.totalcreds()-student1.creds

c2=student2.totalcreds()-student2.creds

puts("Credits yet to finish by student 1 = #{c1}")

puts("Credits yet to finish by student 2 = #{c2}")

sem1=((c1.to\_f)/22).ceil()

sem2=((c2.to\_f)/22).ceil()

puts("Semester required by student 1 = #{sem1}")

puts("Semester required by student 2 = #{sem2}")

print("Student with less arrears = ")

if (student1.arrears<student2.arrears)

puts(student1.name)

else

puts(student2.name)

end

print("Student with more credits = ")

if (student1.creds>student2.creds)

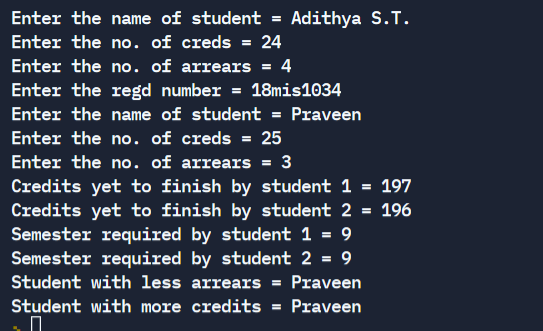
puts(student1.name)

else

puts(student2.name)

end

**Output:**

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