Sell.do

Pune

<u>Acceptance Criteria:</u>

1. Create solution for each assignment in .rb file and share gist link (https://gist.github.com)
2. For assignment 3 (Cricket Tournament):
   a. Modularity
   b. Performance
   c. Best Practices / Code Hygiene
   d. Code Reusability
3. Comments when required

```ruby
# Assignment -1 - Refactor the below example codes (30 Minutes)

# Example 1:
def get_addresses
  addresses = []
  users = User.all
  users.each do |user|
    addresses << user.address if user.address.city.present?
  end
  addresses
end

# Example 2:
class Greeting
  def name=(value)
    @name = value
  end

  def name
    @name
  end
end

# Example 3:
def sum(a, b)
  a + b
end
```

```ruby
def sum(p, q, r)
  p + q + r
end

def sum(x, y, z, w)
  x + y + z + w
end

sum(2, 3) #=> 5
sum(1,2,3,4) # => 10
```

Assignment – 2 (30 Minutes)

There is a User class and User class has a status attribute.
Now that status attr can have so many values like active, inactive, pending, and so on.

Implement the instance method such that I can call that method like below.

@user.active?
@user.inactive?
.
.

The output of the above should be Boolean value i.e true or false.
Create a ruby class to accomplish this and follow the best practices.

Assignment - 3 - Cricket Tournament (3 Hours)

Output for this program would be based on cricket tournament.

The input file/array contains list of inputs, which specifies match between two teams like following –

Team	MP	W	D	L	P
Team A	3	2	1	0	7
Team B	3	2	0	1	6
Team C	3	1	0	2	3
Team D	3	0	1	2	1

What do those abbreviations mean?

MP: Matches Played
W: Matches Won
D: Matches Drawn
L: Matches Lost
P: Points
A win earns a team 3 points. A draw earns 1. A loss earns 0.

The outcome should be ordered by points, descending. In case of a tie, teams are ordered alphabetically.

Input

Your program will receive input that looks like or initialize single array like following:

Team B;Team C;win
Team A;Team D;draw
Team A;Team B;win
Team D;Team C;loss
Team C;Team A;loss
Team B;Team D;win

The result of the match refers to the first team listed. So this line

Team B;Team C;win

Means that the Team B beat the Team C.

This line:

Team D;Team C;loss

Means that the Team C beat the Team D.

And this line:

Team A;Team D;draw
Means that the Team A and Team D tied.