

Q1:

Q.11. @PREFIX ex: <http://examplefruitsjuice.org/> .
@PREFIX rdf: <http://w3.org/rdf/> .
@PREFIX rdfs: <http://w3.org/rdfs-schema/> .

ex: Apple self: instance of self: Fruit.

ex : Mixed Fruit Juice rdf: juiceMadeOfFruit :-1;
 rdf: subclass of rdf: FruitJuice.

:-1 ex: Substances :-2:

3. -35

∴ -4.

:-2

rolfs : fruit

ex: Banana;

ex: quantity

Ex: 2.

:-3

sd/s : Fruit

ex: Pomegranate;

ex : quantity

ex: 1.

:-4

odfs : Fruit

ex: Pineapple;

ex : quantity

ex:1.

ex: Orange Juice self: Juice Made of Fruit : -5

1-5

sdfs: fruit

ex: Orange;

ex : quantity

ex: 37.

-6

ex: andsalt

ex. salt ;

ex: quantity

ex: 1 tablespoon.

rdf: JuiceMadeOfFruit rdf: domain

o.d.f: domain

sd/s : Fruit Juice ;

self : range

odfs : Fruit :

rd: Subrole

self : Juice Made OF.

ex: Juice

ex: Cost

ex. 1NR25 g

ex: quantity

ex^r. | gbes.

Q2:

Q.2 @PREFIX ex: <http://example Mary.org/>
@PREFIX rdf: <w3.org/rdf#>
@PREFIX rdfs: <w3.org/rdfs-schema>
@PREFIX fruit: <http://example Fruit.org/>

<Mary> ex: likes fruit: fruitJuices;
ex: ofType rdf: Bag;
rdf: -1 fruit: Mixed Fruit Juice;
rdf: -2 fruit: Orange Juice;
rdf: -3 fruit: apple Juice.

<Mary> ex: preference rdf: seq;
rdf: -1 fruit: Mixed Fruit Juice;
rdf: -2 fruit: Orange Juice;
rdf: -3 fruit: apple Juice.

<Mary> ex: takes ex: fruit Meal;
ex: MealFrom rdf: alt;
rdf: -1 fruit: orange;
rdf: -3 fruit: Pineapple.

Fruit : Mixed Fruit Juice ex: madeUpOf rdf: Bag;
rdf: -1 fruit: apple;
rdf: -2 fruit: oranges;
rdf: -3 fruit: papaya;
rdf: -4 fruit: banana.

I used 3 Containers:

- 1.Bag:--For contains items in unordered manner.
- 2.Seq:--For contain items in ordered manner.
- 3.Alt:--For pick one item out of all