Sample program to demonstrate Rules and facts

```
weather(phoenix, summer, hot).
weather(phoenix, winter, warm).
weather(la,winter,warm).
```

```
weather(City,summer,hot).
City = phoenix

weather(City,_,cold).
City = phoenix

weather(la,winter,warm).
false
```

Sample program to demonstrate the relationship in prolog.

```
weather(phoenix, summer, hot).
weather(la,winter,warm).

warmer_than(C1,C2):-
    weather(C1, summer, hot),
    weather(C2, summer, warm).
```

```
write(C1), write('is warmer than'), write(C2).

4736is warmer than_4740

true

weather(C1, summer, hot), weather(C2, summer, warm), write(C1), write('is warmer than '), write(C2).

phoenixis warmer than la

C1 = phoenix,

C2 = la
```

Sample program to demonstrate the relationship in prolog.

```
parent(joe,jane).
parent(harry,carl).
parent(meg,jane).
parent(jane,anne).
parent(carl,ralph).
parent(hazel,harry).
grandparent(X,Z):- parent(X,Y),parent(Y,Z).
```

