

## EXPERIMENT:26 Write a Prolog Program for fruit and its color using Back Tracking.

### PROGRAM:

```
% Facts: fruit_color(Fruit, Color)
```

```
fruit_color(apple, red).
```

```
fruit_color(banana, yellow).
```

```
fruit_color(grape, purple).
```

```
fruit_color(orange, orange).
```

```
fruit_color(kiwi, green).
```

```
fruit_color(lemon, yellow).
```

```
% Rule to find the color of a fruit
```

```
color_of(Fruit, Color) :-
```

```
    fruit_color(Fruit, Color).
```

```
% Rule to find fruit(s) of a particular color
```

```
fruit_of_color(Color, Fruit) :-
```

```
    fruit_color(Fruit, Color).
```

### OUTPUT:



```
color_of(apple, Color).
```

```
Color = red
```

```
?-
```

```
color_of(apple, color).
```

