

20. Write a Prolog Program for fruit and its color using Back Tracking.

Program:

```
colour(red).  
colour(yellow).  
colour(red).  
colour(green).  
colour(orange).
```

```
fruit(cherry).  
fruit(banana).  
fruit(apple).  
fruit(apple).  
fruit(orange).
```

```
item(cherry,red).  
item(banana,yellow).
```

```
find(X,Y):-item(X,Y),colour(Y).  
kiran(X,Y):-item(apple,Y),fruit(X).
```

OUTPUT:

```
SWI-Prolog (AMD64, Multi-threaded, version 8.4.3)  
File Edit Settings Run Debug Help  
Welcome to SWI-Prolog (threaded, 64 bits, version 8.4.3)  
SWI-Prolog comes with ABSOLUTELY NO WARRANTY. This is free software.  
Please run ?- license. for legal details.  
  
For online help and background, visit https://www.swi-prolog.org  
For built-in help, use ?- help(Topic). or ?- apropos(Word).  
  
?-  
% c:/users/rohith kumar/onedrive/documents/prolog/fruit colour compiled 0.00 sec, -2 clauses  
?- find(X,Y).  
X = cherry,  
Y = red ■
```