```
In [1]:   1  from random import randint
          2  count=0
          3  used=[]
          4  q=["What color is the sky",
          5      "What color is the grass",
          6      "What color is the sun",
          7      "What color is the snow",
          8      "What color is the orange"]
          9  a=["blue",
         10      "green",
         11      "yellow",
         12      "white",
         13      "orange"]
         14  for x in range(3):
         15      rand=randint(0,4)
         16      if rand in used:
         17          while rand in used:
         18              rand=randint(0,4)
         19      print(q[rand])
         20      ans=input()
         21      if ans.lower()==a[rand]:
         22          print("Correct\n")
         23          count+=1
         24      else:
         25          print("Incorrect\n")
         26      used.append(rand)
         27  print("You got ",count,"\\ 3 correct")
         28
```

```
What color is the orange
orange
Correct

What color is the sky
yellow
Incorrect

What color is the grass
green
Correct

You got  2 \ 3 correct
```

```
In [2]:   1 num=input("Enter a phone number: ")
          2 num2=num.replace('-',"")
          3 if num.count('-')==3:
          4     if num2.isdigit() and len(num2)==11:
          5         print("Valid")
          6     else:
          7         print("Invalid")
          8 elif num.count('-')==2:
          9     num.replace('-',"")
         10     if num2.isdigit() and len(num2)==10:
         11         print("Valid")
         12     else:
         13         print("Invalid")
         14 else:
         15     print("Invalid")
```

Enter a phone number: 123-456-78a9
Invalid

```
In [3]:   1 nl=[(1,[0*j for j in range(i)]) for i in range(11)]
          2 nl.append(1)
          3 print(nl)
```

[(1, []), (1, [0]), (1, [0, 0]), (1, [0, 0, 0]), (1, [0, 0, 0, 0]), (1, [0, 0,
0, 0, 0]), (1, [0, 0, 0, 0, 0, 0]), (1, [0, 0, 0, 0, 0, 0, 0]), (1, [0, 0, 0, 0,
0, 0, 0, 0]), (1, [0, 0, 0, 0, 0, 0, 0, 0, 0]), (1, [0, 0, 0, 0, 0, 0, 0, 0, 0,
0]), 1]

In [ ]:   1