**Activity 7.6**

Write a program that asks you to enter the colour of the light at a set of traffic lights. If the light is green it tells you it is safe, amber….. and red…….

def lights ():

colour = input("What's the colour of the lights? Green, Amber or Red?")

if colour == "Green":

print ("You are safe.")

elif colour == "Amber":

print ("You are 50, 50 between safe and not safe.")

else:

print ("You are not safe.")

Activity 9.10

Python commands colour coding

The Python language is colour coded.

Complete the table below giving an example for each type.

|  |  |  |
| --- | --- | --- |
| **Colour coding** | **What does it show** | **Example** |
| green | Print |  |
| purple | function | Int(input()) |
| Black | Variables |  |
| orange | elif |  |
| red | Errors | Invalid syntax |

**Activity 10.3**

**Slicing strings**

Parts of a string can be extracted (or sliced) by giving the index location in the format.

[start position: end position]

Start position is the index at which the slice starts (remember that indexing starts at zero)

End position is the index AFTER the last index required.

Use the interactive shell to explore how strings can be sliced.

Make a variable called word and set its value to the string “PIZZA”.

>>> word="PIZZA"

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| P | I | Z | Z | A |
| 0 | 1 | 2 | 3 | 4 |

What do these commands do?

>>>word[2:5]

It shows the 3rd, 4th and 5th value of the word ‘pizza’.

>>>word[1:2]

It shows the 2nd and 3rd value.

>>>word[0:3]

It shows the 0th, 1st, 2nd and 3rd value.

>>>word[0:5]

It shows the 0th, 1st, 2nd, 3rd, 4th and 5th.

*Tip: Remember that the index starts at zero not one.*