Sum of digits

intital code

```
def digital_root(n):
number = n
sum = 0
while number >= 10:
    number_list = [int(i) for i in str(number)]
    for i in number_list:
        sum += i
    number = sum
    return number
```

corrected code

```
def digital_root(n):
number = n
while number >= 10:  # Continue until the sum becomes a sing
    number_list = [int(i) for i in str(number)]
    sum = 0
    for i in number_list:
        sum += i
        number = sum  # Update number with the sum of digits
    return number  # Return the digital root
```

Sum of digits

sum = 0 should be moved under while block, this is so the sum resets for every loop

a while should have been used rather than if, as its repeating until it becomes a single digit

```
def digital_root(n):
if n == 0:
    return 0
elif n % 9 == 0:
    return 9
else:
    return n % 9
```

just a clever way too

Sum of digits 2