# Exercises 3: String in Python

**Exercise 1**: write a python program that reads a paragraph of many words and print if a special search word exists and how many time

Example
Text = "Hi my name is Samir and i am 21 years old and i am a student"

Search for word "and"

Output:
*The word "and" exists 2 times*

## Solution:

```python
text= "Hi my name is Samir and i am 21 years old and i
am a student"

search = "and"

count=0

if search in text:
    newtext = text.split(" ")
    for word in newtext:
        if word==search:
            count+=1

print("The word \""+ search+ "\" exists", count, "times")
```

**Exercise 2:** write a python program that takes a string of multiple characters then search for a special character if exists and how many times, elsewhere it should print a message.

## Solution:

```python
text= "Hi my name is Samir and i am 21 years old and i
am a student"

character = "m"

count=0

if character in text:
    for word in text:
        if word == character:
            count+=1
    print(character, "is found", count, "times")
else:
    print(character, "is not found")
```

**Exercise 3**: write a python program that counts the number of effective spaces between words in a text (only a single space is counting if many exists in between)

## Solution:

```python
def reduce_spaces(txt):
    while '  ' in txt:
        txt = txt.replace('  ', ' ')
    return txt



text = " Hi my                  name        is Samir     and
i am    21 years old and i am    a student   "

text = text.strip()

text = reduce_spaces(text)

character = " "

count=0

if character in text:
    for word in text:
        if word == character:
            count+=1
    print("Space is found", count, "effective times")
else:
    print("Space is not found")
```