```python
s = "   $python is fun, python is easy, but python is tough when you don't practice it revise it@       "
character_count = len(s)
print("Number of characters: ")
print(character_count)
#2
listt = s.split(',')
print(listt)
#3
s = "   $python is fun, python is easy, but python is tough when you don't practice it revise it@       "
s_lower = s.lower()
words = s_lower.split()
count_python = words.count("python")
print(count_python, "times.")
#4
s_lower = s.lower()
words = s_lower.split()
count_python = words.count("is")
print(count_python, "times.")
#5
s = "   $python is fun, python is easy, but python is tough when you don't practice it revise it@       "
valuee = len(s)
numb1= valuee + 3
numb2 = valuee- 3
numb3= valuee * 3
numb4= valuee / 3
numb5= valuee// 3
print("Addition Result:", numb1)
print("Subtraction Result:", numb2)
print("Multiplication Result:", numb3)
print("Division Result:", numb4)
print("Floor Division Result:", numb5)

#6
s = "   $python is fun, python is easy, but python is tough when you don't practice it revise it@       "
s = s.replace("when", "if and only if")
print(s)
#7
s = "   $python is fun, python is easy, but python is tough when you don't practice it revise it@       "
num1 = s.rfind("python")
modified_string = s[:num1] + "data sciences" + s[num1 + len("python"):]
difference = len(s) - len(modified_string)
print(modified_string)
print(difference)
#8
s = input("Enter a string: ")
if len(s) % 2 == 1:
    print("True")
else:
    print("False")
```

```
Number of characters:
98
['   $python is fun', ' python is easy', " but python is tough when you don't practice it revise it@       "]
2 times.
3 times.
Addition Result: 101
Subtraction Result: 95
Multiplication Result: 294
Division Result: 32.666666666666664
Floor Division Result: 32
   $python is fun, python is easy, but python is tough if and only if you don't practice it revise it@
   $python is fun, python is easy, but data sciences is tough when you don't practice it revise it@
-7
Enter a string: datascience
True
```